Arboricultural impact assessment and method statement

Former Infant’s School site
Brodog Lane
Fishguard

Prepared by:
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10/07/2018

Document ref: PC18-101
Validation statement for LPA registration

Validation statement

This report contains the supporting tree information relating to the demolition of the former Infant’s School and the construction of new residential dwellings with associated parking and outdoor space.

For Local Planning Authority (LPA) validation purposes, this report has the following:

- A full tree survey, compliant to the requirements of **BS5837: 2012 Trees in relation to design, demolition and construction – Recommendations**, undertaken by a qualified arboriculturist

- A plan with a north point showing tree survey information, including BS 5837 categories

- An assessment of the arboricultural impacts of development, detailing trees to be retained or removed and the proposed protection measures (Section 1)

- An arboricultural method statement describing a feasible means of tree protection, its implementation and the phasing of works (Section 2)
Summary

The proposed plan requires the removal of the majority of existing trees and hedging, mainly around the site boundaries. Without their removal the trees will create intolerable living conditions, through shading and dominance, leading to future pressure for their removal.

Initially, the tree removals will have a high impact on existing screening/privacy and local landscape character.

An improved planting scheme, including new trees and shrubs, will, in time, establish to provide attractive sustainable screening and significant enhancement of local amenity and landscape character.
Section 1: Arboricultural impact assessment

Section 1

Arboricultural impact assessment

This arboricultural impact assessment provides an evaluation of the probable direct and indirect effects of the proposed development on the trees and vice versa. It considers the characteristics and condition of the trees, with due allowance for their future growth and maintenance requirements. Where necessary, impact mitigation measures are recommended.
Section 1: Arboricultural impact assessment

1.1 DIRECT AND INDIRECT EFFECTS OF THE PROPOSED DEVELOPMENT

1.1.1 Tree losses and pruning required to implement the design
Trees that will be affected by this proposal are listed in Table 1.

<table>
<thead>
<tr>
<th>British Standard 5837 category</th>
<th>A (High quality)</th>
<th>B (Moderate quality)</th>
<th>C (Low quality)</th>
<th>U (Poor condition)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trees to be removed</td>
<td>-</td>
<td>H.2, T.3, T.4, T.5, T.9, T.10 &amp; G.11</td>
<td>H.6, H.7 &amp; H.13</td>
<td>-</td>
</tr>
<tr>
<td>Trees to be pruned</td>
<td>T.8</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Abbreviations: T = individual; G = group; H = hedge

The impact of the proposed development on local amenity, landscape character, privacy and screening will be high.

1.1.2 Potentially damaging activities near retained trees
Trees that need to be protected by special precautions are listed in Table 2.

<table>
<thead>
<tr>
<th>British Standard 5837 category</th>
<th>A (High quality)</th>
<th>B (Moderate quality)</th>
<th>C (Low quality)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trees to be protected through special precautions (other than fencing and ground protection)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Abbreviations: T = individual; G = group; H = hedge

The proposed development’s impact on retained trees is considered to be low.

1.1.3 Buildability
The potentially damaging effects of temporary activities during construction are considered below:

- Site access: Site access is provided by an existing entrance and the proposed new road layout is outside the root protection area (RPA) of all retained trees. Impact: Nil.

- Contractor car parking: Contractor parking can be provided within the site and outside the RPA of all retained trees.
Section 1: Arboricultural impact assessment

Impact: Nil.

- **Workspace**: The site has sufficient space to accommodate all activities without encroaching the RPA of any retained trees.
  Impact: Nil.

- **Storage**: Storage areas can be provided within the site and outside the RPA of all retained trees.
  Impact: Nil.

1.1.4 Future pressure for the removal of retained trees

*NOTE*: Trees retained in close proximity to structures and hard surfacing have the potential to cause damage. Occupants of buildings near trees may also be affected. Where these impacts are high, retained trees are likely to face pressure for removal. Our assessment of how the proposed development will be affected by the retained trees, taking into consideration their future growth potential, is summarised below:

- **Direct damage to structures**: The tree removals and tree pruning, listed in Table 1, will ensure the proposed new dwellings are sufficiently distanced from retained trees to prevent damage from root activity and/or overhanging branches.
  Impact: Nil.

- **Shading**: The retained trees will not cast shadows on the proposed new dwellings, due to tree position and/or size.
  Impact: Nil.

- **Seasonal nuisance**: Falling leaves, fruit and flowers have potential to cause minor seasonal nuisance within the gardens of proposed new dwellings nearby. However, general good housekeeping will prevent this becoming a significant issue.
  Impact: Low.

1.2 PROPOSED MITIGATION

1.2.1 Protection of retained trees

*NOTE*: The successful retention of trees depends on the quality of the protection they are given while there is a risk of damage. An effective means of doing this is through an arboricultural method statement that is specifically referred to in a planning condition.
Section 1: Arboricultural impact assessment

An arboricultural method statement for this site is set out in Section 2 of this report. Implementation of this method statement will allow all the retained trees to survive without any adverse impact and allow them to continue to contribute to local amenity and character.

1.2.2 New tree planting
New planting is depicted, which includes new tree and shrub species. Due to insufficient detail, it is unclear whether the depicted new planting will mitigate against the tree losses required by the proposed plan.

1.3 CONCLUSIONS ON THE IMPACTS OF THE DEVELOPMENT PROPOSAL ON LOCAL AMENITY AND CHARACTER

The proposed plan requires the removal of a large number of existing trees and hedges, of low and moderate quality. The losses are required to ensure the proposed new dwellings provide tolerable living conditions.

1.3.1 Modifications recommended to reduce impacts and accommodate trees
A detailed new planting scheme is required, this should include new boundary hedging for the site and internal tree/shrub planting.

Site boundary hedging should be sympathetic to the site’s rural aspect while introducing ornamental shrub species.

A detailed planting scheme, as outlined above, will mitigate the proposal’s impact on trees and make significant improvements to the local landscape character by:

- providing improved sustainable screening between new and existing dwellings;
- introducing species diversity, age range and disease/climate resilience; and
- increasing visual amenity, internally and externally.
Section 2

Arboricultural method statement

This arboricultural method statement describes how trees will be protected and managed during site development. It is based on the information available at the planning application stage and may need to be updated in the context of any specific planning conditions, when full planning approval detail is known (Table B1 of BS 5837).

The purpose of the arboricultural method statement is to:

- explain how and when the protection measures should be installed;
- explain how protection measures will be maintained for the duration of the development activity; and
- provide opportunity for a planning condition, specifically referring to this arboricultural method statement, to ensure retained trees receive the required protection.

The arboricultural method statement relates specifically to this site and must be read in conjunction with the attached tree protection plan.

A copy of this report must be permanently available on site for the duration of the development activity. It can be:

- included in tendering documentation to identify and quantify the tree protection and management requirements;
- used to plan the timing of site operations to minimise the impact on trees; and
- referenced on site for practical guidance on how to protect important trees.
2.1 IMPORTANT TERMS

An explanation of the important terms used within this arboricultural method statement is given below:

**Root protection areas (RPAs):** RPAs are the areas surrounding retained trees where disturbance must be minimised.

**Construction exclusion zone (CEZ):** This is the RPA where no construction activity should occur, and damage is prevented by either installing fencing to restrict access or installing ground protection that allows limited access above the ground, while protecting the rooting environment below.

**Precautionary area:** This is the RPA outside the CEZ where limited works are proposed but must be carried out with care to minimise any impact on the tree rooting environment.

These areas are illustrated on our plans and annotated as follows:

2.2 EXPLANATORY NOTES FOR THE TREE PROTECTION PLAN

The tree protection plan (our reference PC18-101-TPP) is based on information provided by the client and their agents. It should only be used for dealing with the tree issues and the precise location of all protective measures should be confirmed at the pre-commencement meeting.
before any construction activity starts. The plan base is the existing land survey with the proposed layout superimposed, so the two can be easily compared. It shows:

- the existing trees numbered, with high categories (A & B) highlighted in green triangles and low categories (C & U) highlighted in blue rectangles;
- the trees to be removed indicated by a red crown outline; and
- the location of the construction exclusion zone (CEZ) to be protected by barriers formed by fencing and/or ground protection.

2.3 RESPONSIBILITIES

2.3.1 General site management
It is the Main Contractor’s responsibility to ensure that the details of this arboricultural method statement and any agreed amendments are known and understood by all site personnel. Copies of the agreed documents will be available on site and the site manager will brief all personnel who could have an impact on trees on the specific tree protection requirements. This will be a part of the site induction procedures and written into appropriate site management documents.

2.3.2 Contacts
The key contacts, with responsibility for tree related issues on this site are provided below:

<table>
<thead>
<tr>
<th>Responsibilities</th>
<th>Name</th>
<th>Contact details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Authority Arboricultural Officer</td>
<td>Richard Staden</td>
<td>01437 764551</td>
</tr>
<tr>
<td></td>
<td>Pembrokeshire County Council</td>
<td></td>
</tr>
<tr>
<td>Main Contractor</td>
<td>TBC</td>
<td>-</td>
</tr>
<tr>
<td>Arboricultural Consultant</td>
<td>Paul Cleaver</td>
<td>01437 899888</td>
</tr>
<tr>
<td></td>
<td>TreeConsultants.Wales</td>
<td></td>
</tr>
<tr>
<td>Architect</td>
<td>Pembroke Design Ltd</td>
<td>01437 764135</td>
</tr>
<tr>
<td>Ecological Consultant</td>
<td>TBC</td>
<td>-</td>
</tr>
</tbody>
</table>

2.3.3 Arboricultural supervision
The arboricultural consultant is appointed to supervise the tree protection and management for the site. The form and purpose of the arboricultural supervision is as follows:
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- **Pre-commencement meeting:** A pre-commencement meeting will be held on site before any of the site clearance and construction work begins. *This would normally be attended by the site manager, the arboricultural consultant and a LPA representative.* If a LPA representative is unable to be present, the arboricultural consultant will inform the LPA in writing of the details of the meeting. All tree protection measures detailed in this document will be fully discussed so that all aspects of their implementation and sequencing are understood by all parties. This will include agreeing the form and location of the most appropriate combination of fencing and/or ground protection to be used as barriers for the CEZ. Any agreed clarifications or modifications to the consented details will be recorded and circulated to all parties in writing. This meeting is where the details of the programme of tree protection will be agreed and finalised, which will then form the basis of any supervision arrangements between the arboricultural consultant and the developer.

- **Ongoing supervision of operations that could affect trees:** Once the site is active, the arboricultural consultant will visit at intervals agreed at the pre-commencement site meeting. This would normally be every two to four weeks for general supervision but could be at longer intervals if agreed between all parties. The arrangement will be sufficiently flexible to allow the supervision of all sensitive works as they occur. The arboricultural consultant’s initial role is to liaise with the developer and the LPA to ensure that protective measures are fit for purpose and in place before any work starts on site. Once the site is working, that role will switch to monitoring compliance with arboricultural planning conditions and advising on any tree problems that arise or modifications that become necessary.

- **Proof of compliance to help refute liability and facilitate the discharge of planning conditions:** All supervisory visits will be formally confirmed in writing and circulated to all relevant parties, including the LPA. The purpose of these written records is firstly, to provide proof of compliance that will allow the developer to robustly demonstrate adherence to best practice in the event of any disputes, and secondly, to help the LPA efficiently discharge the relevant planning conditions.
### 2.4 PHASING OF WORKS AND PROGRAMME OF ARBORICULTURAL INPUT

A preliminary programme of construction phasing and arboricultural input is set out below:

<table>
<thead>
<tr>
<th>Finalising tree protection details after consent, but before work starts</th>
<th>Arboricultural input</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phase</strong></td>
<td><strong>Arboricultural input</strong></td>
</tr>
</tbody>
</table>
| Pre-commencement site meeting. With supervising arboriculturist, site manager and the LPA representative (if appropriate) | • Meeting on site to agree detail of supervision requirements, i.e. frequency of visits and reporting  
• Review tree protection, if already installed  
• Agree any changes to CEZ barrier combinations of fencing and ground protection |

<table>
<thead>
<tr>
<th>Site operations before construction starts on site</th>
<th>Arboricultural input</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phase</strong></td>
<td><strong>Arboricultural input</strong></td>
</tr>
<tr>
<td>Tree work carried out</td>
<td>• Review the site requirements with the tree work contractor</td>
</tr>
</tbody>
</table>
| Installation of tree protection for agreement by the LPA | • If appropriate, preparation of any revised plans and specifications for agreement by the LPA  
• Photographs showing relevant aspect of installed tree protection measures  
• Liaise with the contractor installing protection until satisfactorily completed |

<table>
<thead>
<tr>
<th>Operations within precautionary areas that could affect trees during construction</th>
<th>Arboricultural input</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phase</strong></td>
<td><strong>Arboricultural input</strong></td>
</tr>
<tr>
<td>n/a</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operations that could affect trees after construction is completed</th>
<th>Arboricultural input</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phase</strong></td>
<td><strong>Arboricultural input</strong></td>
</tr>
</tbody>
</table>
| Removal of barriers and ground protection | • Meeting with contractor for briefing before work starts, with further supervision visits as necessary at the discretion of the arboricultural consultant  
• NOTE: This should only be authorised once there is no risk of RPA damage from the construction activity |
| New tree planting | • Check tree size, species, quality, handling, site preparation and planting comply with the specification |
| Soft and hard landscaping permanent fencing | • Meeting with contractor for briefing before work starts, with further supervision visits as necessary at the discretion of the arboricultural consultant |
| Tree planting maintenance | • Liaise with landscape contractor to check maintenance complies with the specification |

*The precise order and timing of some of the above operations may change due to site operating requirements, but all operations that can affect trees will remain under arboricultural supervision.*
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2.5 TREE WORKS

The proposed tree works are set out in the work recommendations column of the tree schedule in Appendix 2. The trees to be removed are highlighted with red text in the schedule and shown on the plan with a red number and a red crown outline.

Where appropriate, to facilitate access, all crowns of retained trees should be lifted to 3–4m above the site. Only works in excess of this have been listed for individual trees.

The following points should also be noted before carrying out any works:

2.5.1 Implementation of works

All tree works must be carried out with regard to BS 3998 Recommendations for Tree Work as modified by more recent research. It is advisable to select a contractor from the local authority list and preferably one approved by the Arboricultural Association. The Arboricultural Association’s register of Contractors is available free from The Malthouse, Stroud Green, Standish, Stonehouse, Gloucestershire GL10 3DL; phone 01242 522152; website http://www.trees.org.uk

2.5.2 Statutory wildlife obligations

The Wildlife and Countryside Act 1981 as amended by the Countryside and Rights of Way Act 2000 provides statutory protection to birds, bats and other species that inhabit trees. All tree work operations are covered by these provisions and advice from an ecologist must be obtained before undertaking any works that might constitute an offence.

2.5.3 Stumps: Stumps to be removed within the RPAs of retained trees must be ground out with a stump grinder to minimise any disturbance, unless otherwise authorised by the appointed arboricultural consultant.

2.5.4 Reporting during work operations

In the context of the preliminary nature of the tree inspection, any defects that may affect tree safety discovered by the contractor when carrying out the work recommendations should be reported to the arboricultural consultant. Modification to the schedule of works may be required because of these reports. The contractor must be specifically instructed on this point.
Section 3: Appendices

2.6 INSTALLATION OF CEZ BARRIERS (FENCING AND/OR GROUND PROTECTION)

Once the tree works have been carried out, the appropriate fencing and ground protection will be installed before any construction work starts. The protective barriers will remain intact and fit for purpose for the duration of any development activity that could cause damage.

The CEZ boundary is shown on the tree protection plan as the heavy black dashed line. Its location is approximate because its precise position will need to be finalised on site, depending on the local site conditions.

BS 5837 (3.6) describes the CEZ as the “area based on the RPA from which access is prohibited for the duration of a project”. In practice, this can be done by any combination of fencing and ground protection, to be finalised and agreed at the pre-commencement meeting.

2.6.1 Protection of the CEZ by the use of fencing and ground protection

- **Protective fencing:** On the tree protection plan, the approximate boundary of the CEZ is shown by the heavy black dashed line, with the diagonal black hatching indicating the enclosed CEZ. The precise form of fencing is depicted on the tree protection plan. It is considered fit for purpose in that it prevents damaging activities within the CEZ that it encloses, based on the intensity and potentially damaging effects of adjacent work activities.

- **Ground protection:** Where it is not practical to protect the CEZ by the use of fencing alone, BS 5837 (6.2.3.1) allows for the fencing to be set back and the soil protected by ground protection. The purpose being that the underlying soil (rooting environment) remains undisturbed and retains the capacity to support existing and new roots.

2.7 CONTROL OF ACTIVITIES WITHIN RPAS

No work operations in RPAs are expected. However, it is recognised that during the course of a development unexpected works within fenced RPAs are sometimes needed. If any unexpected works are required a specific method statement shall be produced by the arboricultural consultant, and written approval shall be sought from the LPA before any works are carried out. For the avoidance of doubt, all activities within RPAs shall be supervised by an arboricultural consultant.
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2.8 CONTROL OF ACTIVITIES NEAR RPAS

Any risk to trees from activities outside RPAs, but close enough to have a knock-on impact, will be assessed during the day-to-day running of the site and appropriate precautions put in place to reduce that risk.

2.8.1 Prevention of soil contamination: All cement mixing and washing points for equipment will be outside RPAs. Where the contours of the site create a risk of polluted water or toxic liquids running into RPAs, a precautionary measure of using heavy-duty plastic sheeting and sandbags with the ability to contain accidental spillages will be put in place to prevent contamination.

Contaminated mixer and tool wash water shall be decanted in to a sealed container and transported off-site for appropriate disposal.

2.9 INSTALLATION OF NEW SERVICES

It is often difficult to clearly establish the detail of services until the construction is in progress. In principal, the proposal shall route all services outside RPAs of retained trees. If unexpected services do need to be installed within RPAs, a specific method statement shall be produced, and written approval shall be sought from the LPA before any works are carried out.

2.10 REMOVAL OF PROTECTIVE MEASURES

All protective barriers will remain in place until the construction activity is finished and there is no realistic risk of damage to the protected soil surfaces.

2.11 LANDSCAPING AND REINSTATEMENT

The final tidying up and reinstatement can only be carried out when all the protective barriers have been removed, which means great care is needed by all the contractors to observe the tree protection requirements. No machines shall be used within RPAs, which specifically includes rotovators. All new planting and soil level variations shall be agreed and supervised by the arboriculturist.
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Section 3

Appendices
Appendix 1: Administrative information, site visit and data collection

Administrative information

1. Instruction
   I am instructed by Mr Jonathan Cole of ATEB Group to inspect the significant trees that could be affected by the proposed development at the Former Infant’s School, Fishguard and to prepare the following information to accompany the planning submission:

   - a schedule of the relevant trees to include basic data and a condition assessment;
   - an assessment of the impact of the proposal on trees and any resulting impact it has on local amenity; and
   - an arboricultural method statement dealing with the protection and management of the trees to be retained

2. Documents provided
   The tree protection plan is derived from the following provided information:

   - 8975 Existing & Proposed Site Plan 02 Draft-01 pdf.
   - 8975 PSP01B pdf.

3. Limitations of this report
   The following limitations apply to this report:

   - **Statutory protection:** The existence of tree preservation orders or conservation area protection does not automatically mean trees are worthy of being a material constraint in a planning context. Trees can be formally protected but be in poor structural condition or in declining health, which means that they are unsuitable for retention or influencing the future use of the site. Furthermore, a planning consent automatically takes precedent over these forms of protection, which makes them of secondary importance. For these reasons, statutory protection is not always checked as a matter of course in the process of preparing these reports. However, if any tree works are proposed before a planning consent is given, then the existence of any statutory protection must be checked with the LPA.

   - **Ecology and archaeology:** Although trees can be valuable ecological habitat and can grow in archeologically sensitive locations, we have no specialist expertise in these disciplines and this report does not consider those aspects.

   - **Tree assessment and management advice:** Our inspection of the trees for the purposes of assessing their condition and work requirements is made on the basis that they will be periodically inspected in the future to identify any changes in condition and review
Appendix 1: Administrative information, site visit and data collection

the original recommendations. For these reasons, the tree assessment advice only remains valid for two years from the date that the trees were last inspected.

4. Technical references
This arboricultural method statement is based on the following primary technical references:

- National Joint Utilities Group (2007) Volume 4, Issue 2: Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees

5. Qualifications and experience
This report is based on my site observations and the provided information, interpreted in the context of my experience. I have experience and qualifications in arboriculture that can be reviewed at www.treeconsultants.wales/about/the-team.

Site visit and data collection

6. Site visit
I visited the site on 28th June 2018. All my observations were from ground level without detailed investigations and I estimated all dimensions unless otherwise indicated. The weather at the time of the inspections was clear, still and dry with good visibility, enabling clear observations of the trees.

7. Brief site description
The Former Infant’s School is accessed from Brodog Lane, close to the centre of town in Fishguard, Pembrokeshire. The site comprises of redundant school buildings to the south and a raised grass area to the north, now overgrown. The site is bordered on all sides by residential housing, separated from the site by mature trees and hedging.

8. Collection of basic data and compliance with BS 5837
All trees on and adjacent to the proposed development site were initially surveyed. The survey identified individual trees that were significant because of age, size, condition, aesthetic qualities and/or ecological importance, meriting specific consideration. Each significant tree was inspected, and the numbering scheme is indicated on the tree protection plan. Obvious hedges and groups were identified where appropriate. For each individual tree, group or hedge, information was collected on species, height, stem diameter, maturity and potential for contribution to amenity in a development context. As advocated in BS 5837, each tree was then allocated to one of four categories (A, B, C or U), which reflected its
Appendix 1: Administrative information, site visit and data collection

suitability as a material constraint on development. Each category A, B and C tree was automatically assigned BS sub-category 1 unless otherwise stated.

When collecting this information, specific consideration was given to:

- any low branches that may influence future site use;
- age class;
- physiological condition;
- structural condition; and
- remaining contribution.

Where appropriate, crown spreads were also noted where they differed from those shown on the provided land survey. This data, with explanatory notes, is set out in the tree schedule included as Appendix 2 and the supporting plan information. Each tree inspection was of a preliminary nature and did not involve any climbing or detailed investigation beyond what was visible from accessible points at ground level. BS 5837 (4.4.2) sets out recommendations for the collection of data and this report is fully compliant with that advice in the context of the BS 5837 Foreword, which states: “Any user claiming compliance with this British Standard is expected to be able to justify any course of action that deviates from its recommendations.” In that context, we will justify any deviation in this report from the strict BS 5837 recommendations on request.

9. Calculation of RPAs

Following the recommendations in Table D1 of BS 5837, the diameter of each tree was rounded up to the next 2.5cm increment, with the radius of a nominal circle and the resultant RPA taken directly from that table. This information is listed for each tree in the tree schedule in Appendix 2.
Appendix 2: Tree schedule and explanatory notes

NOTE: Colour annotation is: A & B trees with green background; C & U trees with blue background; trees to be removed in red text.

<table>
<thead>
<tr>
<th>Tree No.</th>
<th>Species</th>
<th>Height (m)</th>
<th>Stem Dia. (mm)</th>
<th>Maturity</th>
<th>Crown spread (m)</th>
<th>Low Branches</th>
<th>Category</th>
<th>Notes</th>
<th>Tree Works</th>
<th>RPA R (m)</th>
<th>RPA A (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T.1 Birch</td>
<td>8*</td>
<td>260*</td>
<td>Mature</td>
<td></td>
<td></td>
<td>2</td>
<td>N</td>
<td>B</td>
<td>Trees form an overgrown hedgeline in close proximity to proposed new dwellings. Species will not respond well to severe cutting required to accommodate them.</td>
<td>Remove and replace with new mixed boundary hedging.</td>
<td>3.1</td>
</tr>
<tr>
<td>H.2 Elm, Holly Maple</td>
<td>6.5*</td>
<td>100</td>
<td>Mature</td>
<td></td>
<td></td>
<td>3</td>
<td>N</td>
<td>B</td>
<td>Located within close proximity to proposed new dwelling, extensive pruning required to accommodate tree will remove all its amenity value.</td>
<td>Remove and mitigate with new mixed boundary hedging and new tree within site.</td>
<td>1.2</td>
</tr>
<tr>
<td>T.3 Cherry</td>
<td>8.5*</td>
<td>255*</td>
<td>Mature</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>N</td>
<td>B</td>
<td>Located within close proximity to proposed new dwelling, extensive pruning required to accommodate tree will remove all its amenity value.</td>
<td>Remove and mitigate with new mixed boundary hedging and new tree within site.</td>
<td>3.0</td>
</tr>
<tr>
<td>T.4 Maple</td>
<td>12*</td>
<td>550*</td>
<td>Mature</td>
<td>4</td>
<td>6.8</td>
<td>6.8</td>
<td>N</td>
<td>B</td>
<td>Located within close proximity to proposed new dwelling, extensive pruning required to accommodate tree will remove all its amenity value.</td>
<td>Remove and mitigate with new mixed boundary hedging and new tree within site.</td>
<td>6.6</td>
</tr>
<tr>
<td>T.5 Maple</td>
<td>10.5*</td>
<td>525*</td>
<td>Mature</td>
<td>7</td>
<td>3</td>
<td>6.8</td>
<td>N</td>
<td>B</td>
<td>Located within close proximity to proposed new dwelling, extensive pruning required to accommodate tree will remove all its amenity value.</td>
<td>Remove and mitigate with new mixed boundary hedging and new tree within site.</td>
<td>6.3</td>
</tr>
<tr>
<td>H.6 Ash, Maple</td>
<td>6</td>
<td>150</td>
<td>Maturing</td>
<td></td>
<td></td>
<td>1.5</td>
<td>N</td>
<td>C2</td>
<td>Apical die-back on ash tree indicative of Ash Die-Back disease (Chalara fraxinea). Longevity of ash trees within this group is questionable.</td>
<td>Remove group and replace as part of the new boundary hedgeline.</td>
<td>1.8</td>
</tr>
<tr>
<td>H.7 Cypress</td>
<td>7.5*</td>
<td>200</td>
<td>Mature</td>
<td></td>
<td></td>
<td>2.3</td>
<td>N</td>
<td>C2</td>
<td>Tall, unmanaged non-native hedge providing little amenity value.</td>
<td>Remove and replace as part of the new boundary hedgeline.</td>
<td>2.4</td>
</tr>
</tbody>
</table>
## Appendix 2: Tree schedule and explanatory notes

NOTE: Colour annotation is: **A & B trees with green background; C & U trees with blue background;** trees to be removed in red text.

<table>
<thead>
<tr>
<th>Tree No.</th>
<th>Species</th>
<th>Height (m)</th>
<th>Stem Dia. (mm)</th>
<th>Maturity</th>
<th>Crown spread (m)</th>
<th>Low Branches</th>
<th>Category</th>
<th>Notes</th>
<th>Tree Works</th>
<th>RPA R (m)</th>
<th>RPA A (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T.8</td>
<td>Maple</td>
<td>10*</td>
<td>420*</td>
<td>Mature</td>
<td>- 5 5 5</td>
<td>N</td>
<td>A</td>
<td>Reduce crown height and spread by 1.5m</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Remove suppressed Field Maple on western side.</td>
<td></td>
<td>5.0</td>
<td>79</td>
</tr>
<tr>
<td>T.9</td>
<td>Ash</td>
<td>11.5*</td>
<td>420*</td>
<td>Mature</td>
<td>- 4.5 5 5</td>
<td>N</td>
<td>B</td>
<td>Located within close proximity to proposed new dwelling, extensive pruning required to accommodate tree will remove all its amenity value. Remove and mitigate with new mixed boundary hedging and new tree within site.</td>
<td></td>
<td>5.0</td>
<td>79</td>
</tr>
<tr>
<td>T.10</td>
<td>Maple</td>
<td>11.5*</td>
<td>550@600mm</td>
<td>Mature</td>
<td>5 5 5</td>
<td>N</td>
<td>B</td>
<td>Located within close proximity to proposed new dwelling, extensive pruning required to accommodate tree will remove all its amenity value. Remove and mitigate with new mixed boundary hedging and new tree within site.</td>
<td></td>
<td>6.6</td>
<td>137</td>
</tr>
<tr>
<td>G.11</td>
<td>Ash x5 Eucalyptus x1</td>
<td>13*</td>
<td>375</td>
<td>Maturing &amp; Mature</td>
<td>9 9 9</td>
<td>N</td>
<td>B</td>
<td>Located within close proximity to proposed new dwelling, extensive pruning required to accommodate tree will remove all its amenity value. Remove and mitigate with new mixed boundary hedging and new tree within site. NOTE: Possibly growing on neighbouring land; owner's consent will be required.</td>
<td></td>
<td>4.5</td>
<td>64</td>
</tr>
<tr>
<td>T.12</td>
<td>Weeping birch</td>
<td>4</td>
<td>195* @ 1M</td>
<td>Mature</td>
<td>4 4 4 4</td>
<td>Y</td>
<td>A</td>
<td>Unsightly hedgeline of non-native evergreen trees. If retained will cast excessive shade over new dwelling on northern side, especially during winter period. Extensive pruning required to accommodate these trees will remove current screening value. Remove and mitigate with new mixed boundary hedging and new tree within site.</td>
<td></td>
<td>2.3</td>
<td>17</td>
</tr>
<tr>
<td>H.13</td>
<td>Cypress</td>
<td>9.5*</td>
<td>250</td>
<td>Mature</td>
<td>4 4 4 4</td>
<td>Y</td>
<td>C2</td>
<td></td>
<td></td>
<td>3.0</td>
<td>28</td>
</tr>
</tbody>
</table>
Appendix 2: Tree schedule and explanatory notes

Explanatory notes for schedule

- **Abbreviations:**
  - T : Individual
  - G : Group
  - H : Hedge
  - RPA : Root protection area

- **BS 5837 (2012) compliance:** All data has been collected based on the recommendations set out in subsection 4.4 of BS 5837.

**Future tree safety inspections:** Our assessment of the trees was carried out on the basis that a re-inspection would be carried out within 2 years of our assessment visit.

- **Site limitations:** Where there is restricted access to the base of a tree, its attributes are assessed from the nearest point of access. Climbing inspections are not carried out during a walkover tree survey and, if heavy ivy is present, tree condition is assessed from what can be seen from the ground. A separate note is recorded if further investigation may be required to clarify its status.

- **Crown spreads:** The crown spread measured from the centre of the trunk to the tips of the live lateral branches and rounded up to the nearest half metre for dimensions up to 10m and the nearest whole metre for dimensions over 10m, N= north, S= south, E= east and W=west.

- **Dimensions:** All dimensions are estimated unless annotated with ‘*’.

- **Species:** Species identification is based on visual observations. Where there is more than one species in a group, only the most frequent are noted and not all the species present may be listed.

- **Height:** Height is estimated to provide an indication of the size of the tree.

- **Trunk diameter:** Trunk diameter is estimated or measured and recorded in 2.5cm increments as advised in BS 5837 Table D1. It is measured with a diameter tape unless access is restricted, direct measurement is not possible because of ivy on the trunk or the tree is assessed as poor quality. The point of measurement and the adjustments for stem variations are as advised in Figure C1 of BS 5837.
Appendix 2: Tree schedule and explanatory notes

- **Maturity:** In a planning context, maturity provides a simplistic indication of a tree’s ability to cope with change and its potential for further growth. For the purposes of this report, ‘young’ indicates a potential to significantly increase in size and a high ability to cope with change, ‘maturing’ indicates some potential to increase in size and some ability to cope with change and ‘mature’ indicates little potential to increase in size and limited ability to cope with change.

- **Low branches:** Any low branches that would not be feasible for removal during normal management and should be considered as a design constraint are noted here and explained in the notes.

- **Category:** Tree retention categories were awarded according to the criteria detailed on the TreeABC field sheet provided below. Our assessment automatically considered tree physiological/structural condition (BS 5837, 4.4.2.5h) and so these are not listed separately in the schedule. Additionally, the category accounts for the remaining contribution (BS 5837, 4.4.2.5i) as greater than 40 years for A trees, greater than 20 years for B trees, at least 10 years for C trees and less than 10 years for U trees, so this is also not listed separately in the schedule. Category A, B and C trees are automatically listed as sub-category 1 unless otherwise stated.

- **Notes:** Only relevant features relating to physiological or structural condition and low branches that may help clarify the categorisation are recorded. If there are no notes, then the presumption should be that no relevant features were observed.

- **Tree works:** The inspection of all trees was of a preliminary nature and only defects visible from the ground have been identified. Each individual tree may not have been inspected closely because of access difficulties. In addition to tree removals for development and management reasons, further works are listed to reduce the threats from retained trees.
Appendix 2: Tree schedule and explanatory notes

TreeABC field sheet (Version 16.03-UK)

**Ancient/veteran:** Each tree is assessed by a visual check. If it is a veteran/ancient tree, then it is automatically categorised as A2, and not subjected to any of the category U, C or B considerations.

**Category U (unsuitable for retention):** Any remaining trees that are unsuitable for retention because they are dead; in irreversible decline; and/or have irremedial structural conditions; and/or are causing severe structural damage or inconvenience, are categorised as U.

**Category C (low quality):** Any remaining trees are systematically reviewed to decide if they fit into any of the four C subcategory groups listed below.

- **Category B (moderate quality):** Any remaining trees are automatically category B, with the possibility of being promoted to category A.

**Category A (high quality):** If a category B tree is already large, or has the potential to become so, it can be promoted to category A, at the discretion of the assessor.

### Category C: Low quality trees not worthy of being a material constraint

| Size and legal exemptions: Trees that are too small to be important or unlikely to be suitable for legal protection |
| Size: Young or insignificant small tree |
| Legal exemptions: Trees unlikely to be suitable for legal protection, e.g. a maintained urban hedge, shrubs, etc |
| Deteriorating health condition: Trees that are likely to be removed within 10 years because of deteriorating health and/or structural condition |
| Health: Deteriorating health with little realistic prospect of recovery |
| Crown instability: Deteriorating structural conditions where an increasing risk of failure can be temporarily addressed by reasonable intervention, e.g. storm damage, cavities, decay, included bark, wounds, excessive imbalance, etc |
| Root Instability: Deteriorating whole tree stability through poor anchorage, increased exposure to weather, etc |
| Excessive nuisance: Trees that are likely to be removed within 10 years because of unacceptable impact on people |
| Inconvenience: Ongoing and increasing inconvenience to residents to the extent that a TPO appeal is likely to result in tree removal, e.g. dominance, debris, interference, etc |
| Damage: Ongoing and increasing structural damage to property to the extent that a TPO appeal is likely to result in tree removal, e.g. severe damage to surfacing and structures, etc |
| Good management: Trees that are likely to be removed within 10 years through responsible management of the tree population |
| No future potential: Poor condition or location with no realistic potential for recovery or improvement, e.g. dominated by adjacent trees or buildings, poor architectural framework, etc |
| Benefit nearby trees: Removal would benefit better adjacent trees, e.g. relieve physical interference, suppression, etc |
| Maintenance costs: Unacceptably high maintenance costs, e.g. structural conditions requiring high levels of regular pruning, etc |

**NOTE:** Although C trees are not worthy of influencing new designs, urgent removal is not essential and they could be retained in the short term, if appropriate.

### Categories B and A: Moderate and high quality trees suitable for retention for more than 10 years, and worthy of being a material constraint

**B** All trees that are not categories U or C that can be retained with minimal or limited intervention

**NOTE:** Category B trees that are already large, or have the potential to become so, with minimal or limited intervention, can be promoted to category A1, at the discretion of the assessor. Veteran/ancient trees are automatically category A2. Although all category A and B trees are sufficiently important to be material constraints, category A trees are at the top of the categorisation hierarchy and should be given the most weight in any selection process.

- **A** Single category B trees or small groups which, at the discretion of the assessor, have been promoted to category A because they are already large, or have the potential to become large

  - **1** Veteran/ancient tree

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Further explanation of this enhancement of the BS 5837 method can be found at [www.TreeAZ.com](http://www.TreeAZ.com).

Arboricultural impact assessment and method statement for Proposed development at Former Infant’s School, Fishguard.
Additional information and specifications

1. Protective barriers to enclose RPA and form the CEZ

Type 1 - recommendation taken from Figure 2 of BS 5837, to be installed in areas of intensive construction activity.

Key
1. Standard scaffold poles
2. Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
3. Panels secured to uprights and cross-members with wire ties
4. Ground level
5. Uprights driven into the ground until secure (minimum depth 0.6 m)
6. Standard scaffold clamps
Appendix 3: Additional information and specifications

2. Site photographs

T.1  

H.2

T.3

T.4 & T.5
Appendix 3: Additional information and specifications

H.6

H.7

T.8

T.8 & T.9
Appendix 3: Additional information and specifications
Appendix 3: Additional information and specifications

3. Tree Protection Plan