

KEY

BS 5837 Tree Quality Category

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TREE CONSTRAINTS INFORMATION

- TAG** Tree / Group Survey Reference
- Individual tree
- Tree group/hedge
- RPA Default minimum

TREE PROTECTION PLAN - DETAILS

- Tree / Hedge Removal**
- To be removed - Dashed
 - FELL**

Arboricultural Method Statement/s

All AMS areas are to be worked in strict accordance to detailed arboricultural method statements.

- Ground Protection

AMS: a detailed Arboricultural Method Statement to be agreed with the LPA prior to commencement of development

Construction Exclusion Zone/s

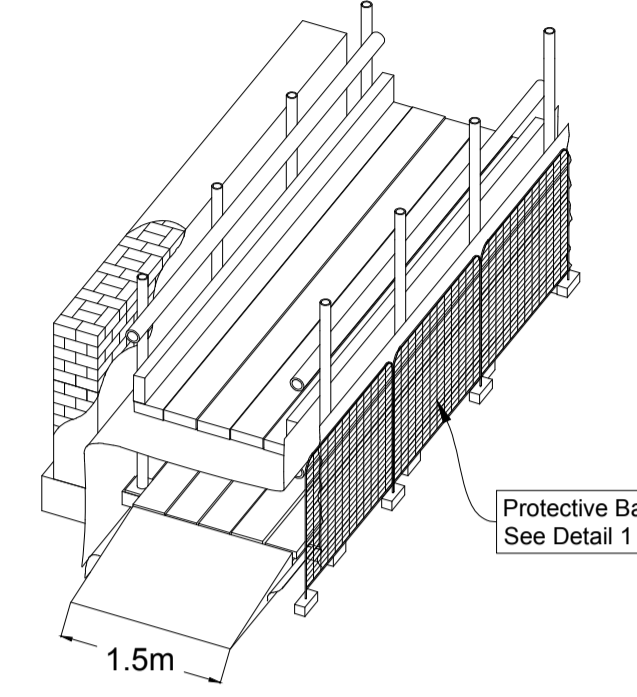
- Construction Exclusion Zone - CEZ

All operations inside of Tree Protective Fencing are to be supervised by an appointed arboriculturist.

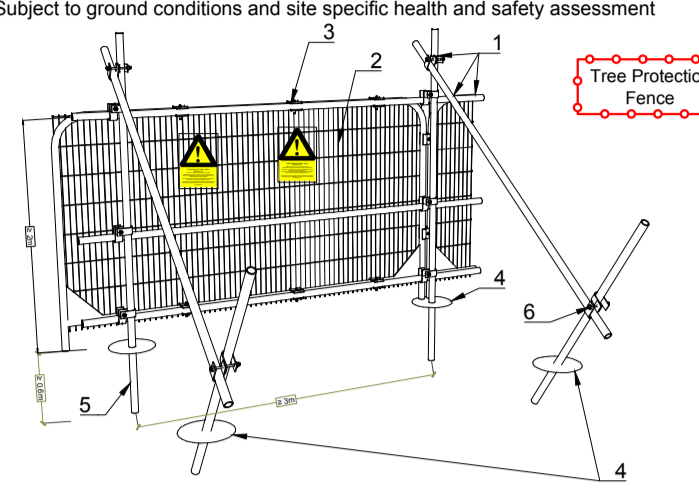
Tree protective barrier/s

- Tree protective fence / barrier (See Detail 1)

DETAIL 2:
Ground Level Protection With Tree Protective Barrier
Provide As Plan For Whole Extent of Area Within The RPA



DETAIL 1:
Specification For Protective Barrier (Default - BS 5837)
Subject to ground conditions and site specific health and safety assessment



- Key**
- Standard scaffold poles
 - Heavy gauge 2m tall galvanized tube and welded mesh infill panels
 - Panels secured to uprights and cross-members with wire ties
 - Ground level
 - Uprights driven into the ground until secure (minimum depth 0.6m)
 - Standard scaffold clamps

A full scale copy of this document is to be held on site for the duration of the site works and construction. All site operatives to be instructed as to its content during SITE INDUCTION.

Arboricultural Method Statement (Tree Protection Measures)

Details of the methods of tree protection	✓
TREE PROTECTION PLAN showing the location of tree protective fencing and ground protection	✓
Details of installation of capping measures within RPA	✓
Installation of benches in open space area	✓
Emergency procedures	✓

WARNING: Failure to comply with this method statement may result in prosecution and lead to a breach of the planning permission. Removal of tree protective fencing may lead to prosecution or enforcement action - DO NOT remove the fencing without permission of the local planning authority. If you are in any doubt contact the Appointed Specialist, Project Manager or the LPA Tree Officer.

Site Manager	TBC	TBC
Project Manager	TBC	TBC
Aspect Tree Consultancy	Domika Sutton Project Arboriculturist	07949 28544 / 03364 644822 domika@aspecttree.com
LPA Tree Officer(s)	Neil Turner Plymouth City Council	0320 304822 neil.turner@plymouth.gov.uk

Tree Protection Measures

- Pre-commencement site meeting**
- Prior to the commencement of the development, site clearance or ground works a site meeting shall be arranged and held between the Site Manager, the Arboriculturist, and the Tree Protection Fence contractor.
 - Any defective tree protection measures will be reported to the site manager immediately and made good by the same.
 - The site manager is responsible for informing the LPA or an appointed arboricultural specialist of any damage to or breaches of the Tree Protection Measures immediately.

Construction Exclusion Zone - CEZ

- CEZs are shown on this Tree Protection Plan.
 - The CEZs are to be afforded protection at all times and will be protected by PROTECTIVE FENCING and/or GROUND PROTECTION as shown on this plan.
 - No works will be undertaken within any CEZ that causes compaction to the soil or severance of tree roots.
- Tree Protective Fences (TPF)**
- Protective fencing will be erected in accordance with this TREE PROTECTION PLAN prior to the commencement of any site works i.e. before any materials or heavy machinery is brought on site. The fencing may only be removed following completion of all construction works or with the formal agreement of the LPA.
 - The location of the fence will be as accurate as possible to this approved Tree Protection Plan. Any change to the position or construction of the fencing must be approved by the Arboriculturist and subsequently agreed by the LPA.
 - No vehicles will drive or be parked within the CEZ.
 - No materials will be stored within the CEZ.
 - Warning Notices will be affixed to every third panel or at 12m centres and will be made of all-weather signs stating "CONSTRUCTION EXCLUSION ZONE" - BS 5837.
 - After installation of the TPF the Construction Exclusion Zone must be considered sacrosanct and off limits for any access or construction activity without the formal consent of the LPA or otherwise detailed on the TPF.

Installation of capping material for ground contamination

- Where ground contamination is identified within the RPA of retained trees, it will be treated as follows:
 - The ground will be covered with a 150mm S20 Slag (or similar) to cap the contamination.
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 - The ground (any depression) will be levelled with clean sand and not builders' sand or horticultural grade grit.
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Installation of benches:

- The foundations for the benches will be dug by hand and all cement will be mixed and stored outside the area in accordance with the on-site environmental guidelines.
- The paths will be formed using either existing or new paths.

On-site environmental good practice guidelines

- Storage and use of liquids and hazardous materials.
- Liquids (fuel etc.) should be stored as far away from CEZ areas as is reasonably practicable.
- Soil kits and trip trays should be provided and maintained in close proximity to where liquids are stored, dispersed and used. Materials should be stored in accordance with manufacturer's safety data sheets.
- Drip trays or absorbent mats should be placed under filling points during the transfer/dispensing of liquids e.g. during the refuelling of plant to avoid any form of soil contamination in or immediately adjacent to CEZ or area for new landscape planting.

Responsibilities

- It is the responsibility of the Building Contract Manager (BCM) to ensure that the planning conditions attached to planning consent are adhered to at all times.
- The Building Contract Manager will be responsible for contacting the LPA at any time issues are raised related to the trees on site. If at any time pending works are required permission must be sought from the Local Planning Authority first and then carried out in accordance with BS 5837:2010.
- The Building Contract Manager will ensure the build contractor is responsible to ensure that no damage occurs to the trees during the construction processes.
- Protective fencing will remain in position until completion of ALL construction works on the site.
- The fencing and signs must be maintained in position at all times and checked on a regular basis by an on-site person designated that responsibility.

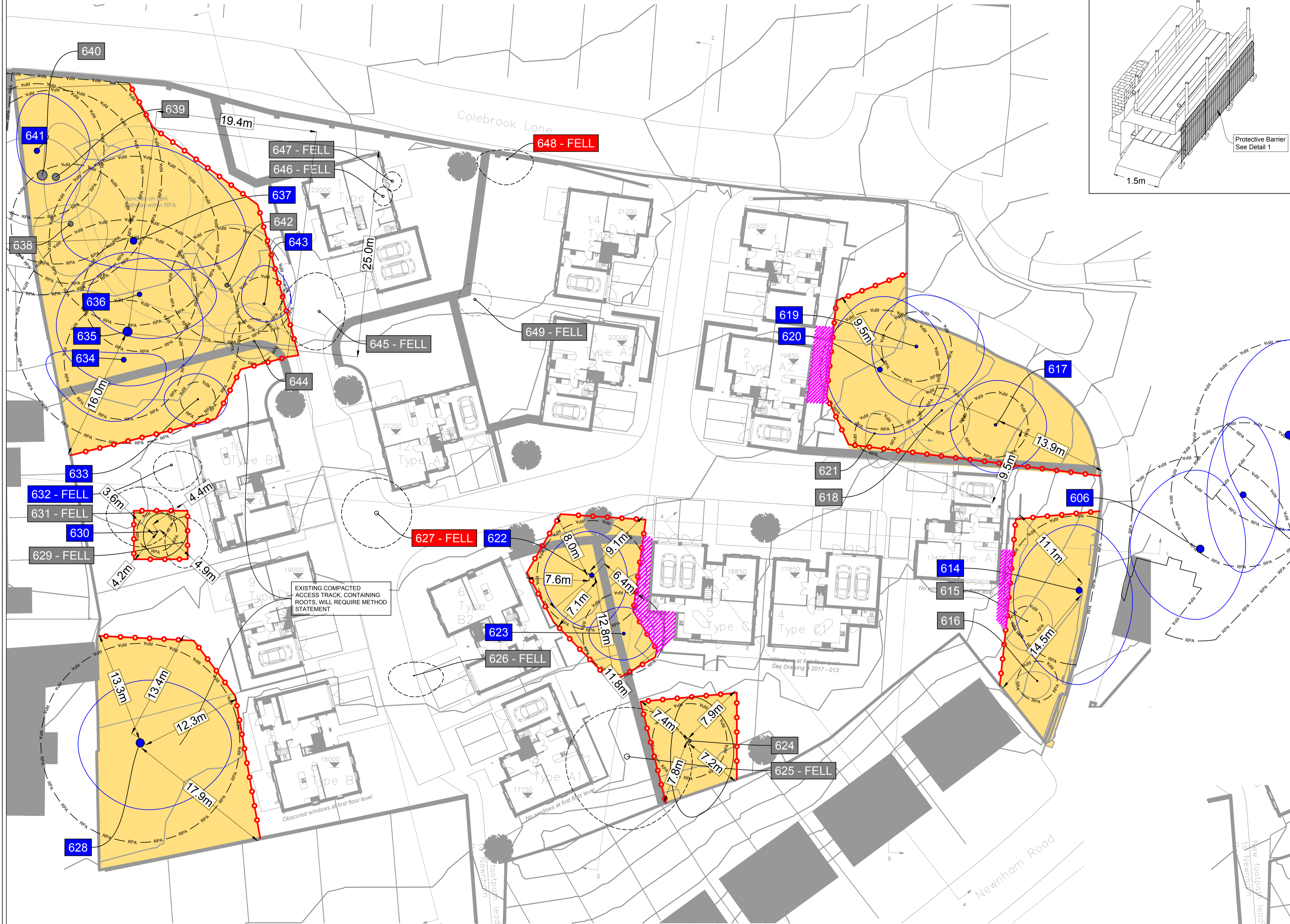
Emergency Departures & Incident Reporting

- The contractor shall contact an appointed arboricultural specialist or the LPA Tree Officer if any breaches of the CEZ and tree protection measures occur.
- An action plan to incorporate mitigation measures where necessary will be agreed and effectively implemented.
- Contingency Plan: Water is readily available on site and will be used to flush spill materials through the soil and avoid contamination to tree roots. At the time of any spillage the main contractor will contact the arboriculturist for advice.

Arboricultural Site Monitoring

- Monitoring will be undertaken at a frequency agreed with the construction site manager during the initial pre-commencement site meeting.
- The arboriculturist shall be present during the following key stages:
 - Pre-start meeting & initial positioning of the TPF & ground protection measures - marked out on the ground prior to the commencement of any site construction operations during pre-start meeting with Contractor/Arboriculturist.
 - Sign off to confirm TPF and ground protection correctly installed.
 - Contamination Capping - Installation of special surface (Geogrid): Contractor/Arboriculturist. SUBMIT MONITORING LOG TO LPA.
 - Monitoring site inspections by Arboriculturist for duration of construction. SUBMIT MONITORING LOG(S) TO LPA.

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REVISION TABLE

Rev No.	Date	Description
A	29/11/17	New Layout, trees 624 & 630 Retained
B	16/1/19	Amend tree protective fence

Accompanying documents which must be read in conjunction with this drawing:
04968-TreeSurvey-2017 / 04968 TCP

Notes

All dimensions are in metres, unless otherwise stated. Generic shadow areas are only shown for trees which influence the site and are > 10m in height. The original of this drawing was produced in colour, a monochrome version should therefore not be relied upon.

Client: Burrington Estates Newnham Ltd

Project: Colebrook House, Plympton

Title: Tree Protection Plan & AMS

Date:	16.1.19	Drawn:	DS
Scale:	1:250 @ A1	Checked:	DS

Dwg Ref: 04968 TPP & AMS RevB

