

BS5837:2012 -Trees in relation to design, demolition and construction. AIA, AMS & TPP report in relation to proposed works at the Thomas Cowley High School.

Prepared by: East Midlands Tree Surveys Ltd.

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Instructions

This report was commissioned by James Caborn in relation to trees located at Thomas Cowley High School that are implicated by proposed site changes with instruction to provide the following in line with *BS5837:2012 Trees in relation to design, demolition and construction - Recommendations*.

- An Arb Impact Assessment along with an Arb Method Statement and Tree Protection details.

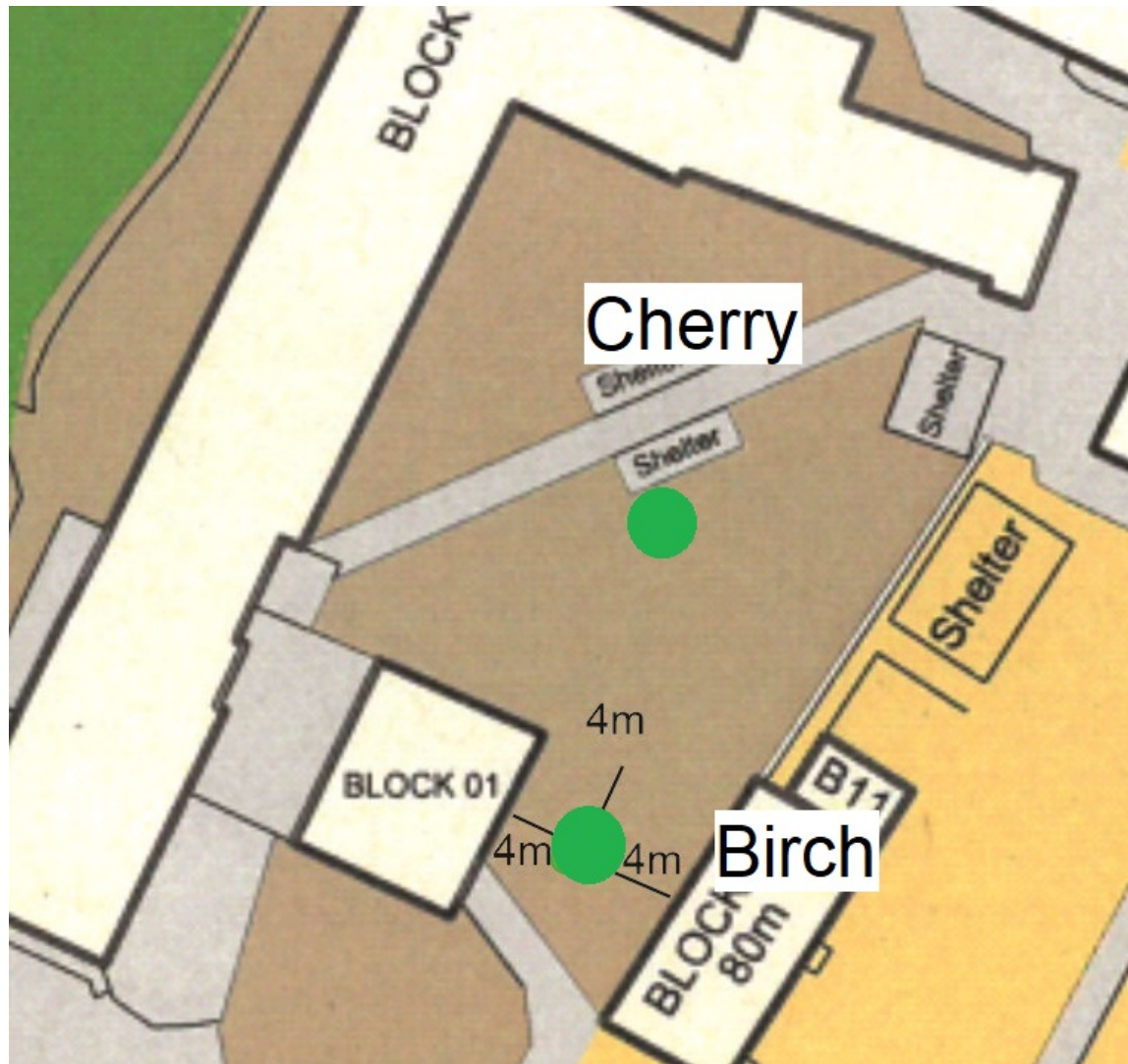
Introduction/commentary

The proposed works are for a change of surfacing within the school grounds.

These works implicate 2 Cat B trees (T0060 Cherry and T589 Birch) close to blocks 1 & 11 as per the site plan below. It is proposed to replace the existing pavers/grass with tarmac, the Cherry is to be removed whilst the Birch is to be retained. Neither tree provides public visual amenity.



Site plan.



A replacement tree will be planted elsewhere on site in mitigation, the detail to be agreed with the LPA.

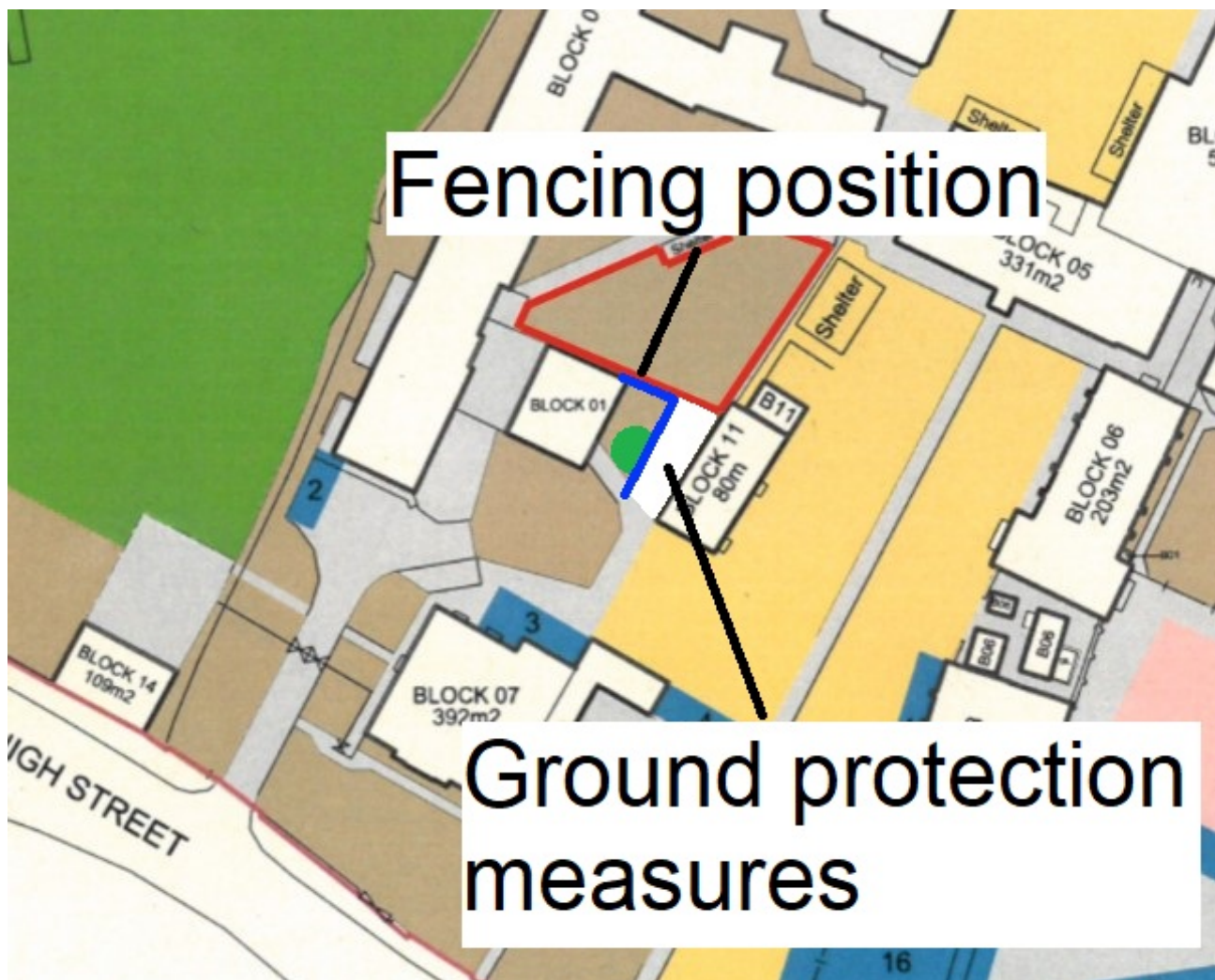
The Birch tree position has been measured on site taken from fixed points (see first site plan). The RPA for the Birch is 6m - with the proposed tarmac at 4m, there will be some encroachment into the notional RPA however it is unlikely that there will be any significant roots at that distance from the tree centre and it is suggested that there will be little adverse effect.

Tree Protection/Method Statement for the Birch

Essentially once the Cherry has been removed, the retained Birch will be crown raised to 3m and then protected during the construction phase by a mix of both Heras fencing and anti-compaction ground protection measures to allow for the movement of machinery as per the drawing below.

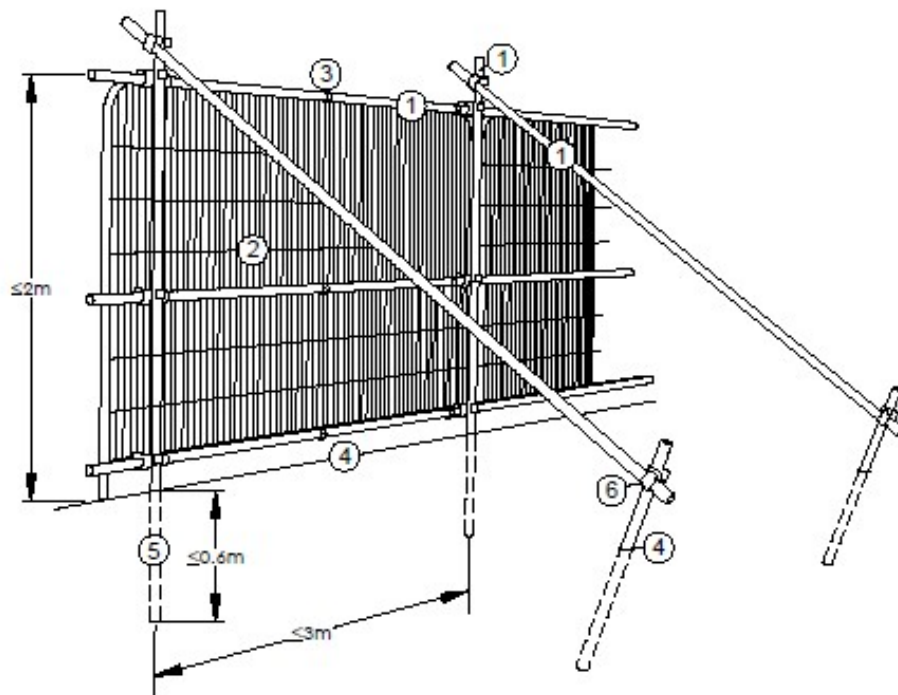
There is sufficient space for the required machinery to gain access to the work area assuming mini-digger type plant.

If larger plant equipment is required, this method statement will require further Arboricultural input to be agreed with EMTS.



The fencing shall remain in place throughout construction and be removed only after completion of works.

The default specification as per figure 2 of BS 5837:2012 will be used as per below in order to minimise the risk of damage to roots.



1. Standard scaffold poles
2. Heavy gauge 2m tall galvanised tube and weld mesh infill panels
3. Panels secured to uprights and cross members with wire ties
4. Ground Level
5. Uprights driven into ground until secure (minimum depth 0.6m)
6. Standard scaffold clamps

Within the fenced zone, no materials or chemicals should be stored at any time, no fires should be lit, no pedestrian or vehicle traffic, and level changes within these areas should be kept to an absolute minimum. Every effort should be taken to protect a maximum possible area of the root system.

Clear notices are to be fixed to the outside of the fencing with words such as
'TREE PROTECTION AREA – NO ACCESS OR WORKING WITHIN THIS AREA'.



These notices shall be A3 in size, laminated and fixed to the fencing using suitable aids such as tie wires.

The ground protection measures will be as per the spec below or similar, these to be laid on top of 4 inches of woodchip taken from the removed Cherry.



RoadTrack

Planning the use of the Ground-Guards RoadTrack access system into your job before you start can save you from damaged ground, and stuck vehicles. And the extra safety that this provides could also save someone from having a serious accident.

These lightweight plastic panels have now become recognised as standard equipment for use on many sites. They enable quick, safe, easy access and are virtually indestructible. They are guaranteed unbreakable by vehicles of up to 60 tonnes which makes them ideal for manoeuvring heavy equipment around on site with minimal disturbance to the ground.

RoadTrack panels are made from environmental friendly 100% recycled plastic, and they range in sizes from 2.4 x 1.2m (8' x 4') down to 1.8 x 0.6m (6' x 2') and are available with different tread patterns to suit a whole range of uses.

They can be either quickly loose-laid for short term ground protection, or clipped together for longer term jobs such as making semi-permanent site access roads. This saves the huge hassle and cost of stripping out and stoning up a temporary roadway, then removing the stone and reinstating the ground afterwards.

The site agent, all contractors and other relevant personnel are to be informed of the role of the Tree Protection Fencing and their importance. A copy of the Tree Protection Plan will be displayed on site at all times during construction.

John Wilcockson – Director, East Midlands Tree Surveys LTD.

Tech Cert (Arbor A), NDF For

16/05/22