

**ST CLARE'S PRE-SCHOOL, LAND ADJACENT TO 10
STROUDEN COURT, HAVANT, PO9 4JX**

**HARD SURFACE DETAIL
FOR
PROPOSED MODULAR BUILDING**

**On behalf of
PACKER DESIGN ASSOCIATES**

November 2017

REF: 17.555a

REV:



WH Landscape Consultancy Ltd
Sandcliffe House
Northgate Street
Devizes
Wilts
SN10 1JT

t: 01380 727539

e: info@whlandscape.co.uk

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1. INTRODUCTION

1.1. The following information has been prepared by **WHLandscape** and seeks to provide further supporting documentation on the construction of the hard surfacing at St Clare's Pre-school, Havant, with particular focus placed on the protection of the retained trees.

2. PLAYGROUND AND FOOTPATH SPECIFICATION

2.1 Area A - Playground and Footpath

2.1.1 The playground and footpath shall be excavated to a minimum depth of 220mm onto a sound base. All excavation works adjacent to retained trees will be undertaken by hand and shall be outside the protective fencing and root protection areas, unless otherwise stated. All exposed roots on the edge of the excavation shall be neatly trimmed back using clean secateurs, with a mixture of sharp sand and clean soil (30:70 mix) backfilled in areas adjacent to the rooting zone where needed. The construction shall comprise the following:

- a) Minimum of 180mm DoT type 1 (in 50mm layers well compacted)
- b) 50mm bitumen base concrete
- c) 20mm bitumen wearing course
- d) Perimeters and to define footpath 150mm x 150mm precast concrete edging set in 150mm concrete base and surround.

2.2 Area B - Artificial grass

2.2.1 Artificial grass applied to no dig areas as detailed in the Arboricultural Method statement produced by **WHLandscape** dated August 2017 (Ref 555a), and a web link previously provided.

3. NO-DIG CONSTRUCTION

3.1 Area C – No dig section of footpath

3.1.1 A no-dig construction system should be used for the section of footpath within the RPA of tree T4, the location of which is detailed in Fig. 1.

3.2 GROUND PREPARATION WITH THE RPA

- a. The no-dig area will be marked out with the existing road surface, grass and upper organic layer of soil excavated by hand to a depth of no more than 50mm. Spoil will be wheel-barrowed out of any tree protection areas and stored in a suitable location. Machinery (even low ground pressure tracked vehicles) will not be used within the soft verge due to the danger of soil compaction.
- b. Any small depressions will be filled in with sharp sand.

3.3 NO DIG FOOTPATH CONSTRUCTION

- a. A Geotextile membrane will be laid over the cleared road area.
- b. A 200mm-deep cellular confinement system will be laid over the Geotextile membrane and will be carefully pegged into place.
- c. The cellular confinement system will be filled with a no-fines angular granular fill (typically 40/20mm). Cells will be filled from the area furthest from the tree first, with the cellular confinement being used as a platform for any further filling.
- d. A Geotextile membrane will be laid over the filled cellular confinement system.
- e. A 50mm layer of gravel will be laid over the Geotextile membrane.
- f. The surface will allow for oxygen diffusion and the passage of water to the root systems.

3.4 EDGE SUPPORT/KERBING FOR NO-DIG CONSTRUCTION

3.4.1 The excavation needed for the placement of kerbs, edgings and their associated foundations and haunchings can damage tree roots. Where new kerbing is required within the RPA, edge supports should comprise pegs and board edging. It will also be necessary to locate the pegs clear of any major tree roots visible on the surface. Kerb edging within the trees' RPAs should be constructed by hand only and in accordance with the guidance contained within Arboricultural Practice Note 12 – *Through the Trees to Development*.

3.5 MAINTENANCE OPERATIONS

- a. Monthly maintenance inspections are recommended to ensure debris, weeds and leaf removal (or snow clearance and de-icing in winter months).
- b. Any areas of damaged or defective surface should be repaired or replaced as necessary.

4. REFERENCES

British Standards Institute, 2012. *BS 5837:2012 – Trees in relation to design, demolition and construction. Recommendations*. Online: BSI.

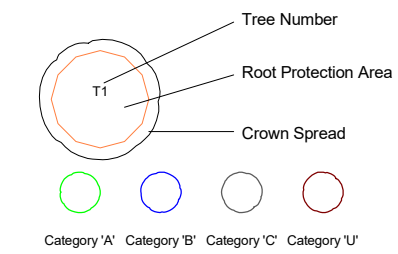
Derek Patch and Ben Holding – Arboricultural Advisory and Information Service, 2007. *Arboricultural Practice Note 12 – Through the Trees to Development*. Available through: The Arboricultural Association website:
<<https://www.trees.org.uk/kentcotrees/Trees.org.uk>



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	Ground protection / Artificial grass		Playground and Footpath
	No dig construction		Tree Protection Fencing
			Tree to be removed

Tree Survey Detail



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WHLandscape
landscape architecture & arboriculture
Sandcliffe House, Northgate Street,
Devizes, Wiltshire SN10 1JT
t: 01380 727539 e: info@whlandscape.co.uk

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Project: St Clare's Pre-School Land adjacent to 10 Strouden Court			
Figure title: Hard Surface Detail			
Figure number: Fig. 1.		Scale: 1:500 @ A3	
DB: ST	CB: WH	Date: Nov 17	Rev:

APPENDIX 1

EXAMPLE OF A NO-DIG CONSTRUCTION METHODOLOGY.

