



Fallen&Found Arboriculture

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Critchley Architects

The Old Brewery
15E South Street
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R.E. PLANNING APPLICATION: APP/21/00091 7, ELWELL GREEN, HAYLING ISLAND, PORTSMOUTH, HAMPSHIRE, PO11 9AZ.

Dear Mrs Fox,

I was instructed by you, on behalf of Critchley Architects and your client to carry out arboricultural consultancy services in format of an **Arboricultural Tree Survey**¹ at the aforementioned address in Hayling Island. The purpose of my visit was to examine the relationship between the proposal and the tree population growing within an influencing distance of the site. I was instructed to create a **Tree Survey Schedule** recording all my observations, tree categorisations and measurements and a **Tree Constraints Plan (TCP)**². The purpose of this plan is to provide an accurate visual representation of the location, dimensions and juxtaposition between the proposal and the retained tree population.

All of my tree observations were of a preliminary nature, with the tree survey being carried out from ground level without any investigations using invasive or diagnostic equipment. I have not checked the accuracy of the positions of the trees, and I have estimated all dimensions unless otherwise stated.

I personally attended the access road behind the site on Wednesday 22nd March 2021. During my inspection I assessed a single mature Sycamore tree (**T1**) which is growing on the end of a linear group of heavily pollarded semi-mature Sycamore (**G1**) trees. This group of trees, including the single Sycamore tree are afforded statutory legal protection under **Tree Preservation Order (TPO Area 1161)**. All the trees which I inspected have been subject to historical and more recent crown pruning operations. The overall vitality of the subject trees was fair with nominal – poor growth extension and numerous historic pruning wounds at various states of occlusion.

¹ British Standards (BS) 5837:2012 *"Trees in relation to design, demolition, and construction – Recommendations."*

² Appendix A Q0121\7ElwellGreen\TCP_V1



The location of the proposed development is separated from the subject trees by a 2m high wooden fence and an approximately 5m wide access road. The road has been surfaced using an impermeable layer of tarmac asphalt without obvious kerb edging. In my professional opinion and through my own experience, Asphalt roads create dry anaerobic conditions below their foundations which are not amenable to the proliferation of tree roots. Consequently, I perceive the likelihood of significant root activity within the proximity of the proposed development.

The theoretical root protection area of **T1**, as calculated in accordance with **British Standards (BS) 5837:2012 "Trees in relation to design, demolition, and construction – Recommendations."** Does project into the rear garden of 7 Elwell Green and beneath the proposed development. The incursion of the proposed extension into the theoretical root protection area equates to 0.10%³ of the trees overall root protection area. The incursion caused by the proposed extension is much lower than the 20% threshold for new surfacing within the RPA as specified by the British Standards. Considering the minor incursion of the proposed extension and the above/below ground constraints to tree root growth I perceive there to be an extremely low potential for any long-term negative impacts to the subject trees arising from the formation of the proposal.

Despite the low potential for harm associated with the development process it is my opinion that a precautionary approach to the works is adopted. This should be in the form of temporary ground protection to be laid across the RPA of **T1** where it projects into the rear garden of 7 Elwell Green. I have outlined the specification for this below and identified the area where it is to be installed on the accompanying **Tree Protection Plan**⁴ found within the appendices of this document.

*Temporary ground protection shall be installed in the locations specified in the accompanying **Tree Protection Plan**⁵ in the areas indicated (solid Yellow). A layer of geotextile will be first laid onto the existing ground surface and pegged in place using small pins. A 150mm deep layer of woodchip will be spread evenly over the geotextile material by hand using wheelbarrows and a rake. On to the woodchip layer, a series of interlinked pre-cast resin boards or 20mm thick ply boards shall be joined together and affixed to the ground using steel pins. An example diagram and photographs of the installed ground protection is provided in **Appendix B (Figure 1)**. The purpose of the ground protection is to provide safe passage of construction traffic across the Root Protection Areas of the trees without distorting or causing compaction of the underlying soil horizons. This form of ground protection is **only** suitable for the following instances: "for pedestrian operated plant up to a gross weight of 2t".*

*The location and extent of the extension foundation will be marked out on the ground using biodegradable marker paint by the Building Contractor and Arboricultural Consultant. The first 600mm of soil at the north-western end of the trench where it is within the RPA of **T1** is to be excavated carefully by hand using a spade and shovel. All small roots ($\leq 25\text{mm}$ dia) which are discovered above a depth of 600mm are to be pruned back to the edge of the trench using a sharp pair of bypass secateurs. Due to the location of the trench, I do not anticipate the presence of any major roots in the proximity of the trench. However, in principle, all significant roots ($\geq 25\text{mm}$ dia) should be left in situ and only pruned after consulting the appointed Arboricultural Consultant.*

³ Incursion (0.18 m^2) X 100 ÷ Trees overall RPA (166.4 m^2) $\approx 0.18\%$

⁴ Appendix A Q0121\7ElwellGreen\TPP_V1

⁵ Appendix A Q0121\7ElwellGreen\TPP_V1



In my professional opinion, As long as the Temporary Ground Protection is installed and that the arboriculturally sensitive method of work discussed above is followed, I perceive there to be a very low potential for long term detriment to **T1** arising from these works. Consequently, I do not perceive there to be any significant arboricultural reason for the planning application not to proceed.

Oliver Lower ND Arb L3, Dip Arb L4, Dip Arb L6

Director & Principal Arboricultural Consultant



Appendix A

BS5837:2012 Tree Survey

Fallen&Found Arboriculture Ltd

Client: Critchley Architecture & Design
 Project: Q0121 Elwell Green
 Survey Date: 14/04/2021
 Surveyor: Oliver Lower



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 Romsey
 Hampshire
 SO51 7PL
 Phone: 01794 502101

Tree and Tag No Species			Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
				No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
G1	N/A											Estimated Measurements			
A Group		15	1	220	N	2	5	SM	A: 21.9	Fair	C: Poor			C.2	
- -					E	2	5		R: 2.64		S: Fair	A long linear group of heavily pollarded Sycamore trees. Trees have been poorly pruned.		10 to 20 yrs	
					S	2	5				B: Fair				
					W	2	5								
T1	N/A														
Sycamore		17	3	607 (Eq)	N	2	6	M	A: 166.4	Fair	C: Fair			C	
<i>Acer pseudoplatanus</i>					E	4.5	5		R: 7.27		S: Poor	A multi stemmed Sycamore with included bark stem unions.		10 to 20 yrs	
					S	3.2	5				B: Fair				
					W	3.4	5								

Legend

 RPA Incursion



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7 Elwell Green Tree Constraints Plan

SCALE :

1 : 200

@ A4

DATE :

14/04/2021

N



MAP FILENAME :

Q01217ElwellGreenTCP_V1

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Crown Spread



Root Protection Area



Category 'A'



Category 'B'



Category 'C'



Category 'U'

0

12m



G1
C

T1
C

Incursion into RPA 0.10%



Legend

-  Temporary Ground Protection
-  RPA Incursion



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7 Elwell Green Tree Protection Plan

SCALE :
1 : 200 @ A4

DATE :
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MAP FILENAME :
Q01217ElwellGreen\TPP_V1

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G1
C

T1
C

Section of foundation to be hand-dug.





Appendix B

Temporary Ground Protection

Sketch plan of set background protection affixed to the ground using pins suitable for machinery **NOT** exceeding 2 tonnes.

