

Trial Excavation



To determine rooting activity at

**1 Spring Terrace
Richmond
TW9 1LW**



Dated
9th August 2024



**CROWN
Consultants**

Tree consultants throughout England and Wales

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1. Introduction

1.1. Instructions

1.1.1. We are instructed by Seb Priest of LXA to oversee excavations and determine the extent of rooting activity at 2 locations within 1 Spring Terrace. The reason for investigating the extent of rooting activity is to inform an assessment of the potential impact of proposed pier foundations on the adjacent London Plane (T1).

1.1.2. The investigation took place on 2nd August 2024 and this report presents the findings.

1.2. Attendance

1.2.1. Overseeing the excavation was Carl Lothian BSc (Hons) MArborA.

1.3. Trial Pit Location

1.3.1. The trial excavations were located adjacent to the existing boundary wall as indicated on the plan within Appendix 2.

1.4. Excavation Methodology

1.4.1. Excavation was undertaken using hand tools.

1.4.2. The soil was first loosened with a digging bar and the loosened soil was then removed using a small trowel.

2. Trail Pit Results

2.1. Trial Pit 1

2.1.1. This pit was excavated furthest away from T1. It extended 600mm across the boundary wall in the location of the proposed pier foundations and 600mm deep.

2.2. Comments

2.2.1. Only occasional fibrous roots were uncovered at shallow depths. No significant roots or roots >25mm diameter were uncovered (see Photos 7 and 8).

2.3. Trial Pit 2

2.3.1. This pit was excavated closest to T1. It extended 600mm across the boundary wall in the location of the proposed pier foundations and 650mm deep.

2.4. Comments

2.4.1. Only fibrous roots were uncovered at shallow depths. These were mostly attributed to the adjacent Elaeagnus shrub. No significant roots or roots >25mm diameter were uncovered (see Photos 9 and 10).

3. Implications for Development Proposals

- 3.1.1. Despite Trial Pits 1 and 2 being within the theoretical Root Protection Area of T1, no significant roots were uncovered.
- 3.1.2. Consequently, the foundations may be installed in these areas without having a detrimental impact and on the health of T1.

4. Photographs

Photo 1. Location of TP1 (existing foundations exposed).



Photo 2. Position of TP1 along wall.



Photo 3. Location of TP2 (existing foundations exposed).



Photo 4. Position of TP2 along wall.



Photo 5. Using digging bar to loosen soil.



Photo 6. Using trowel to remove loose soil.



Photo 7. Tp1 after excavation.



Photo 8. Tp1 after excavation.



Photo 9. Tp2 after excavation.



Photo 10. Tp2 after excavation.



Appendix 1: Author's Qualifications

Qualifications & Experience of Carl Lothian – BSc (Hons) (Arboriculture), MArborA.

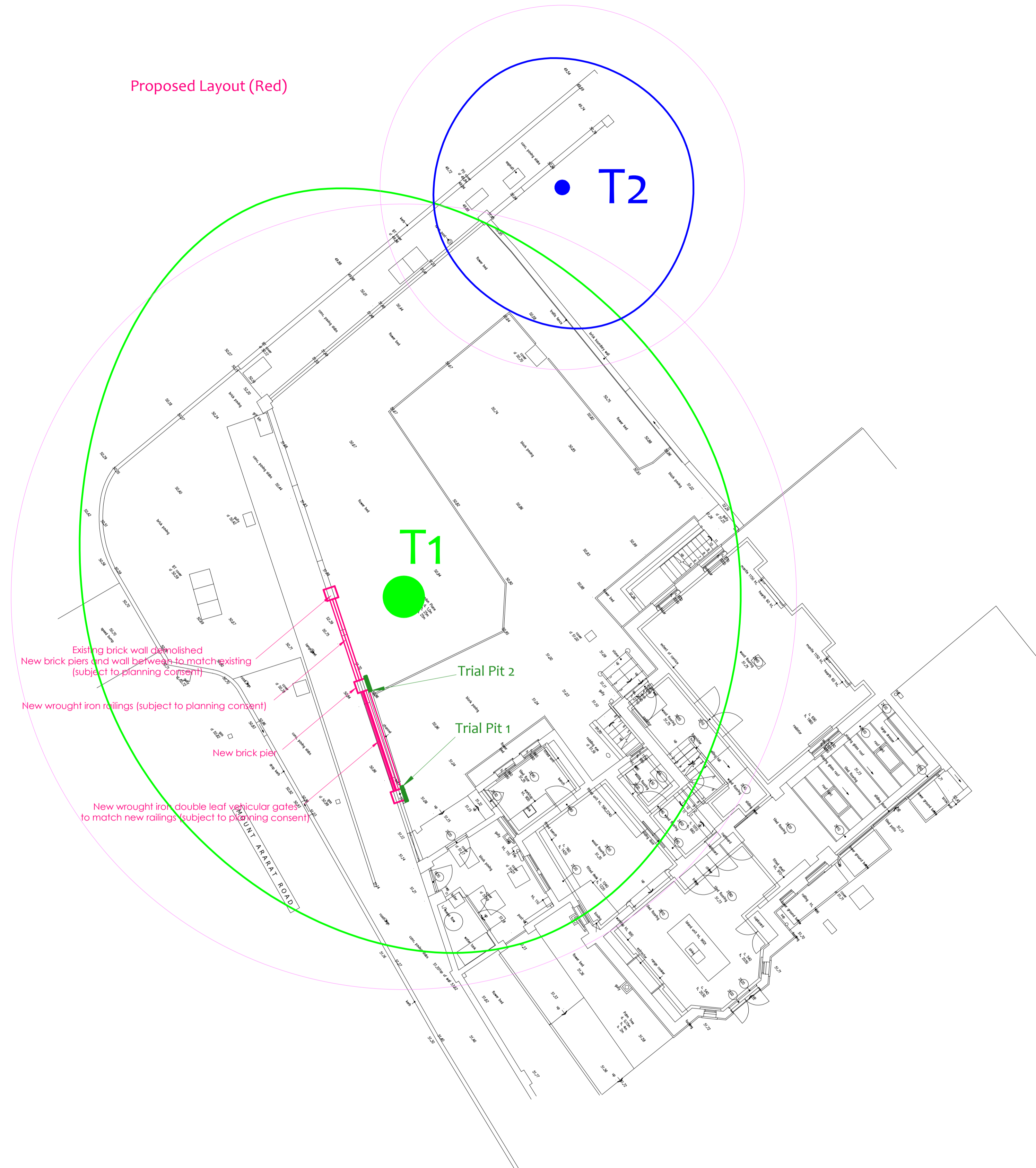
Carl began his arboricultural career by undertaking a Level 3 extended diploma in arboriculture and forestry at Merrist Wood College in 2015. Upon completion of his diploma, Carl worked with several tree surgery firms completing a range of arboricultural works. In 2018 Carl began his BSc (Hons) in arboriculture and urban forestry, graduating with a first-class degree and attaining the Institute of Chartered Foresters Student of the Year Award.

After graduating, Carl worked as a TreeRadar technician where he carried out tree root and decay surveys with specialist ground-penetrating radar equipment. During this time Carl was fortunate enough to work at prestigious sites, such as the Palace of Westminster and the National Maritime Museum.

Whilst working at Crown, Carl has undertaken a range of tree surveys and written reports relating to development, tree condition, subsidence, hazard assessment, and decay detection. Carl is a professional member of the Arboricultural Association

Appendix 2: Trial Pit Location Plan

The plan following this page indicates the location of the excavated pits.



Proposed Layout (Red)

T2

T1

Existing brick wall demolished
New brick piers and wall between to match existing
(subject to planning consent)

New wrought iron railings (subject to planning consent)

New brick pier

New wrought iron double leaf vehicular gates
to match new railings (subject to planning consent)

Trial Pit 2

Trial Pit 1

1011 ABBEY ROAD

Trial Pit Location Plan

Drawing No: CCL 11180A / TPLP Rev: 1
 Title: Trial Pit Location Plan
 Site: 1 Spring Terrace TW9 1LW
 Scale: 1:100 Paper Size: A1



Tree Retention Categories	
Stems & canopies shown	Description
	Category A tree
	Category B tree
	Category C tree
	Category U tree

Trees of high quality with an estimated life expectancy of 40+ years. Usually large trees with significant presence or smaller trees with excellent form. Retention of these trees is highly desirable.

Trees of moderate quality with a life expectancy of 20+ years. Usually maturing trees or younger trees with good form. Retention of these trees is desirable though less than Category A trees.

Unremarkable trees of low quality and merit. Individual specimens are not considered to be a material planning consideration.

Trees unsuitable for retention due to their very poor condition.

	BS 5837 Root Protection Area (radius = 1xstem diameter)
	Root Protection Area needing amendment due to site conditions, e.g. presence of existing road or building.
	Root Protection Area having been amended to account for site conditions

Trial Pit 1

MN = Measured North:
 Canopy spreads are sometimes measured to an approximate N defined by site features. Often more accurate, especially where rows of trees are not aligned N-S or E-W.

Tree Ref.	Species	Height (m)	Radius (m)	Area (m ²)
T1	London Plane	30	19.2	1158 34.0
T2	Horse Chestnut	16	7.0	152 12.3

T1 = Tree No 1 G2 = Group No 2 H3 = Hedge No 3