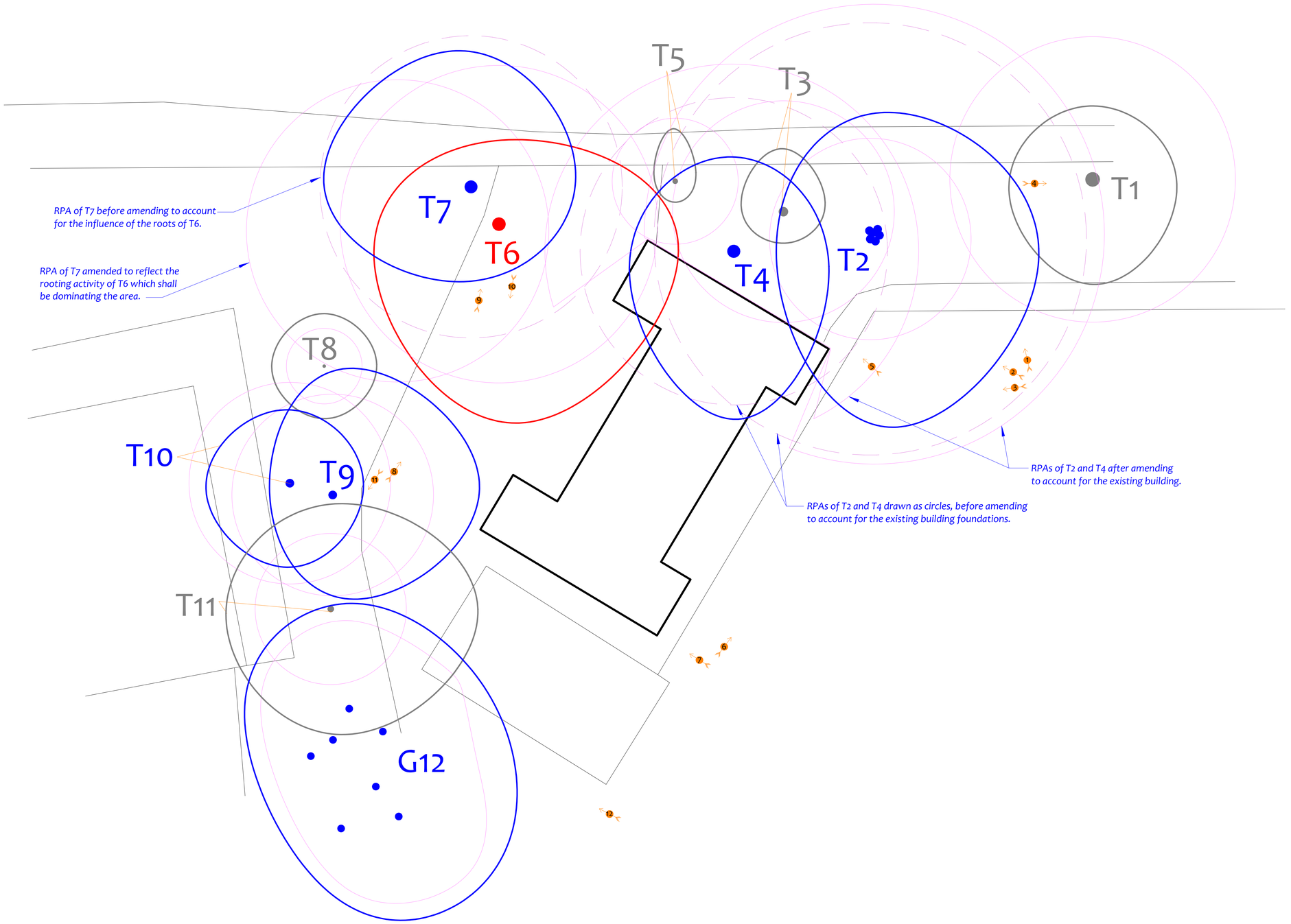


Tree Constraints Plan

(Existing Layout)

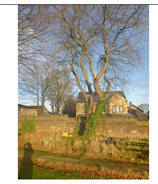


Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6

See the accompanying report for more photographs

Tree Ref.	Species	Height (m)	Root Protection Area		
			Radius (m)	m²	Square (m)
T1	Horse Chestnut	12	6.8	145	12.1
T2	Beech	22	10.3	335	18.3
T3	Sycamore	18	5.3	88	9.4
T4	Sycamore	22	7.3	168	13.0
T5	Sycamore	13	3.0	28	5.3
T6	Beech	18	7.6	180	13.4
T7	Lime	17	7.2	163	12.8
T8	Holly	10	1.8	10	3.2
T9	Sycamore	15	4.8	72	8.5
T10	Sycamore	14	4.8	72	8.5
T11	Sycamore	16	3.6	41	6.4
G12	Holly	17	4.2	55	7.4

Drawing No: CCL 10218 / TCP Rev: 1

Title: Tree Constraints Plan (Existing Layout)

Site: Birkby Rose Hill HD2 2BS

Scale: 1:100 Paper Size: A1

CROWN Arboricultural Consultants 01422 316660

Tree Retention Categories
Stems & canopies shown

- Category A 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.
- Category B tree — 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
- Category C tree — Unremarkable trees of low quality and merit. Individual specimens are not considered to be a material planning consideration.
- Category U tree — Trees unsuitable for retention due to their very poor condition.

BS 5837 Root Protection Area (radius = 12xstem diameter)

Root Protection Area needing amendment due to site conditions, e.g. presence of exising road or building.

Root Protection Area having been amended to account for for site conditions

1 Photo 1

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

Excerpts from the Arboricultural Impact Assessment

Overview

It is proposed to extend the existing building as indicated on the plans in Appendix 6. The existing layout is indicated in black and the footprint of the proposed layout is indicated in pale green.

The table below summarises the potential impact on trees due to various activities.

Activity	Trees Potentially Affected
Tree Removal: Retention Category A	None
Tree Removal: Retention Category B	None
Tree Removal: Retention Category C	None
Tree Removal: Retention Category U	T6
Tree Pruning	T9
RPA: Building Foundations	T4
RPA: New Surfaces	None
RPA: Underground Services	None Anticipated
RPA: Change of Ground Levels	None
RPA: Soil Compaction	Trees adjacent the construction area (preventable by installing tree protection measures)

Tree Removal

All trees to be removed are indicated on the Impact Assessment Plan and listed below:

- **Retention Category A:** Our survey did not identify any Retention Category A trees.
- **Retention Category B:** It is proposed to retain all Retention Category B trees.
- **Retention Category C:** It is proposed to retain all Retention Category C trees.
- **Retention Category U:** It is proposed to remove the following Retention Category U tree: T6. This tree is in such a poor condition that it requires removal regardless of the development proposals.

Details specific to each tree can also be found in the Tree Data Schedule.

Impact on Tree Canopies

A single storey extension is proposed close to the canopies of T4, T7, T9 and T11. The canopies of trees T4, T7 and T11 are quite high (starting at 4m above ground level or above) and consequently no pruning is required to these trees. However, it is proposed to remove the lower branches of T9 to a height of 4m where they overhang the boundary. This shall ensure adequate clearance height for construction in order to prevent any accidental damage to branches. So long as the pruning works are undertaken sympathetically (working to BS 3998: 2010 guidelines) this tree shall not be significantly harmed or disfigured. Such a small amount of pruning shall have no impact on local visual amenity and is not considered to be a material planning consideration.

All other tree canopies shall be unaffected by the proposals.

Impact on Tree Roots

Building Foundations:

The foundations for the new single-storey extension will extend into a small portion of the theoretical Root Protection Area of T4 and may affect very few roots of T7.

T4 is an early mature Sycamore tree growing approximately 3.8m from the proposed extension. Some rooting activity may be present where the extension is proposed. However, only approximately 6% of the theoretical RPA of T4 is likely to be affected (see the area shaded in blue on the accompanying Impact Assessment Plan). This is within tolerable limits as research has shown that healthy trees of most species are able to withstand the loss of some roots (to a maximum of about 20% of the rooting area) with no long term detrimental impact. Therefore, an impact of approximately 6% on the root system of T4 should be tolerated by this relatively healthy and vigorous tree with no observable detrimental impact.

Taking into account the above considerations, the impact upon T4 is considered to be minor and no restrictions on foundation design or implementation are considered necessary.

T7 is an early mature Lime tree situated on third party land growing approximately 5.2m from the proposed extension. The soft ground between the proposed extension and the stem of T7 is likely to be dominated by the roots of T6 which will deter the roots of T7 from growing towards the extension. Hence, very few roots of T7 (if any) will be affected by the proposed extension.

Summary

It is proposed to remove one Retention Category U tree (T6) due to its poor condition. No trees require removal as a direct impact of development.

One tree (T9) requires pruning to create clearance for construction work. Only relatively small branches that overhang the boundary are to be removed to a height of 4m. Such a small amount of pruning shall have no impact on visual amenity.

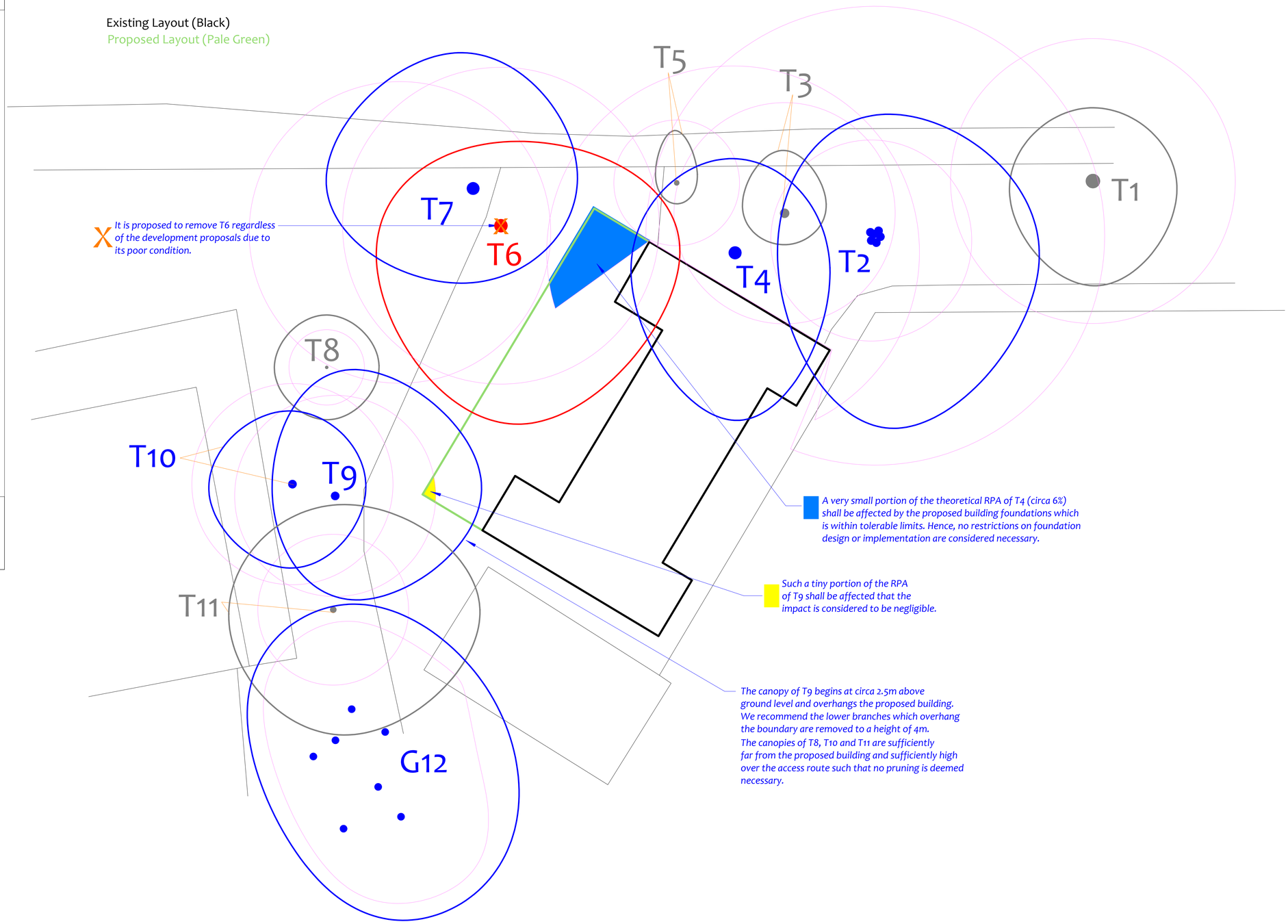
No new hard surfacing is proposed in RPAs.

Foundations are proposed within a small portion of the theoretical Root Protection Area of T4. However, due to the small extent of RPA affected (approximately 6%) the impact is considered to be minor and shall be tolerated by this tree with no observable detrimental impact.

See Section 4 for a more detailed assessment

Existing Layout (Black)

Proposed Layout (Pale Green)



It is proposed to remove T6 regardless of the development proposals due to its poor condition.

A very small portion of the theoretical RPA of T4 (circa 6%) shall be affected by the proposed building foundations which is within tolerable limits. Hence, no restrictions on foundation design or implementation are considered necessary.

Such a tiny portion of the RPA of T9 shall be affected that the impact is considered to be negligible.

The canopy of T9 begins at circa 2.5m above ground level and overhangs the proposed building. We recommend the lower branches which overhang the boundary are removed to a height of 4m.

The canopies of T8, T10 and T11 are sufficiently far from the proposed building and sufficiently high over the access route such that no pruning is deemed necessary.

Impact Assessment Plan

(Existing Layout with Proposals Overlaid)

Tree Ref.	Species	Height (m)	Root Protection Area Radius (m)	m²	Square (m)
T1	Horse Chestnut	12	6.8	145	12.1
T2	Beech	22	10.3	335	18.3
T3	Sycamore	18	5.3	88	9.4
T4	Sycamore	22	7.3	168	13.0
T5	Sycamore	13	3.0	28	5.3
T6	Beech	18	7.6	180	13.4
T7	Lime	17	7.2	163	12.8
T8	Holly	10	1.8	10	3.2
T9	Sycamore	15	4.8	72	8.5
T10	Sycamore	14	4.8	72	8.5
T11	Sycamore	16	3.6	41	6.4
G12	Holly	17	4.2	55	7.4

Drawing No: CCL 10218 / IAP Rev: 1

Title: Impact Assessment Plan (Existing Layout with Proposals Overlaid)

Site: Birkby Rose Hill HD2 2BS

Scale: 1:100 Paper Size: A1

CROWN Arboricultural Consultants 01422 316660

Tree Retention Categories
Stems & canopies shown

- Category A 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.
- Category B tree — 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
- Category C tree — Unremarkable trees of low quality and merit. Individual specimens are not considered to be a material planning consideration.
- Category U tree — Trees unsuitable for retention due to their very poor condition.

BS 5837 Root Protection Area (radius = 12xstem diameter)

Root Protection Area needing amendment due to site conditions, e.g. presence of exising road or building.

Root Protection Area having been amended to account for for site conditions

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

X — Tree to be removed to facilitate the proposal

X — Tree to be removed due to its low quality

Proposed pruning

Impact Assessment Plan

(Existing Layout with Proposals Overlaid)