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ARBORICULTURAL AND WOODLAND CONSULTANTS

TITLE: Arboricultural Impact Assessment:
Drainage Proposals at Russia Dock Woodland, Southwark.

DATE: 13/02/2024

PREPARED BY: Dominic Poston

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ARBORICULTURAL IMPACT ASSESSMENT (APIII)

Drainage Proposals: Russia Dock Woodland,
Southwark.

HWA11079-APIII

13 February 2024

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Southwark Council

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SUMMARY

The purpose of this report is to deliver specific information pertaining the arboricultural implications created by the three proposed drainage routes within Russia Dock Woodland. In accordance with the feasibility and planning sections of BS5837:2012 “Trees in relation to design, demolition and construction – Recommendations”, trees deemed to be within the influencing distance of the projected construction have been evaluated for quality, longevity, and initial maintenance requirements.

This report provides sufficient information for the Local Planning Authority (LPA) to consider the effect of the proposed development on local character from a tree perspective. It is fully compliant with the BS 5837 advice relating to the planning application stage of the process and it meets national standard planning application validation requirements.

Option 1 of the three provided options appears to result in the least harm to existing arboricultural content of the site. However, an arboricultural method statement and tree protection plan will be required to support the proposed works.



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13/02/2024

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Part One: Introduction

This report is formulated in accordance with the recommendations contained within BS 5837, providing appropriate and sufficient information to enable Southwark Council to consider the effects of the proposed options for drainage eat Russia Dock Woodland upon existing trees and local character. It includes an **Arboricultural Impact Assessment** detailing how retained trees may be successfully integrated into the design. It is fully in line with the BS 5837 advice relating to the planning application stage of the process highlighted in Table B1 reproduced below:

Table B.1 Delivery of tree-related information into the planning system

Stage of process	Minimum detail	Additional information
Pre-application	Tree survey	Tree retention/removal plan (draft)
Planning Application	<ul style="list-style-type: none"> ▪ Tree survey (in the absence of pre-application discussions) ▪ Tree retention/removal plan (finalized) ▪ Retained trees and RPAs shown on proposed layout ▪ Strategic hard and soft landscape design, including species and location of new tree planting ▪ Arboricultural impact assessment 	<ul style="list-style-type: none"> ▪ Existing and proposed finished levels ▪ Tree production plan ▪ Arboricultural method statement – heads of terms ▪ Details for all special engineering within the RPA and other relevant construction details
Reserved Matters / Planning Conditions	<ul style="list-style-type: none"> ▪ Alignment of utility apparatus (including drainage), where outside the RPA or where installed using a trenchless method ▪ Dimensioned tree protection plan ▪ Arboricultural method statement-detailed ▪ Schedule of works to retained trees, e.g., access facilitation pruning ▪ Detailed hard and soft landscape design 	<ul style="list-style-type: none"> ▪ Arboricultural site monitoring schedule ▪ Tree and landscape management plan ▪ Post-construction remedial works ▪ Landscape maintenance schedule

Table 1: Delivery of tree-related information into the planning system

1. Particulars of Instruction

- 1.1 Hallwood Associates Ltd (HWA) are instructed by Southwark Council to provide specialist arboricultural advice in accordance with the principles laid out within British Standard BS 5837: 2012 “Trees in relation to design, demolition and construction – Recommendations (BS) with regards to Drainage Proposals: Russia Dock Woodland, Southwark.

2. Authorship

- 2.1 Dominic Poston is a chartered arboriculturist and chartered environmentalist. He holds the Royal Forestry Society’s Professional Diploma in Arboriculture, is a fellow member of the Arboricultural Association and a registered consultant with the Institute of Chartered Foresters. The findings in this report are reached through site observations and conclusions are made in light of his experience. Details are available upon request or at www.hallwoodassociates.com.

3. Report References

- 3.1 This Arboricultural Impact Appraisal is informed by reference material, including the following:
- BS 5837: (2012) Trees in relation to Design, Demolition and Construction – Recommendations;
 - BS 3998: (2010) Tree Works – Recommendations;
 - National Joint Utilities Group (2007) Volume 4, Issue 2: Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees;
 - DTLR (2001) Principles of Tree Hazard Assessment and Management – David Lonsdale
- 3.2 The following drawings and/or reports aided production of this Impact Assessment:
- Existing site layout
 - Proposed site layout

4. Scope of Report

- 4.1 This report and all plans appended to it have been formulated using guidance given in the British Standard 5837: 2012 *Trees in relation to design, demolition and construction – Recommendations* (BS 5837)¹.
- 4.2 The tree survey was carried out independently, as far as possible, of the proposed new layout, as recommended in the British Standard.
- 4.3 The survey contains details of the size, condition and retention category of each tree which may be affected by the proposed development.
- 4.4 The retention category is derived from the British Standard which allows arboriculturists to place trees in certain bands so that impacts can be appropriately quantified and managed; broadly defined as follows:
 - **A Category** - High quality and value - such a condition as to be able to make a substantial contribution (a minimum of 40 years is suggested);
 - **B Category** - Moderate quality and value - those in such a condition as to make a significant contribution (a minimum of 20 years is suggested);
 - **C Category** - low quality and value – currently in adequate condition to remain until new planting could be established (a minimum of 10 years is suggested).
 - **U Category** - in such a condition that any existing value would be lost within 10 years and which should, in the current context be removed for reasons of sound Arboricultural management.

¹ British Standards Institution (2012) BS 5837: Trees in relation to design, demolition and construction – Recommendations, BSI <https://shop.bsigroup.com/>

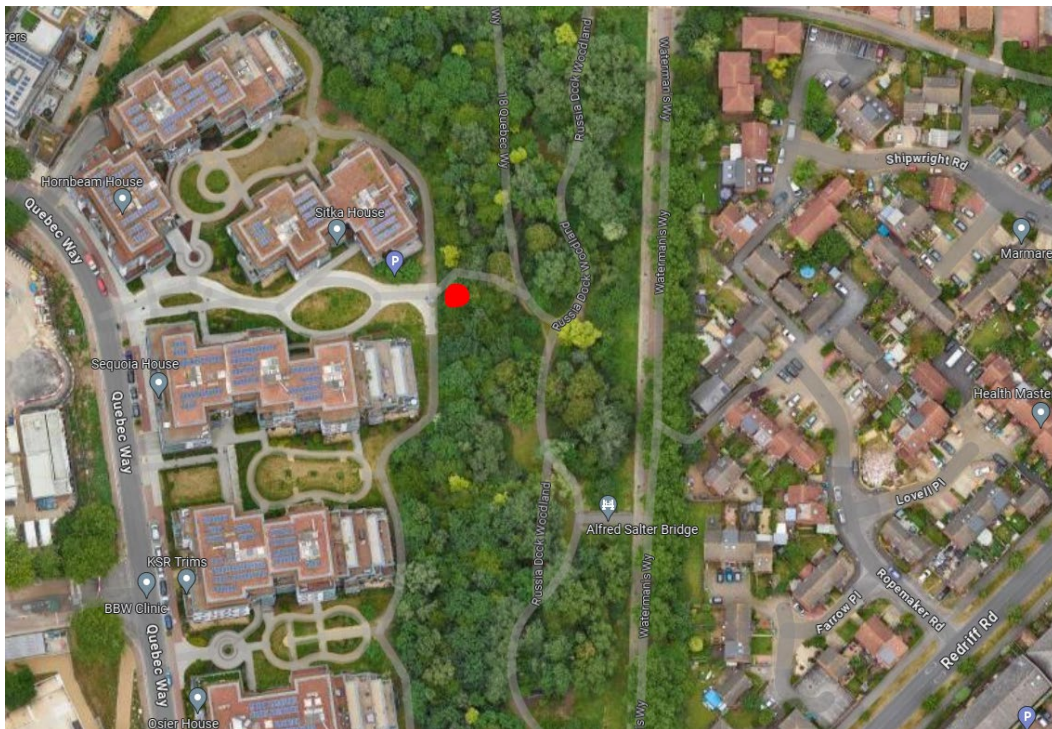
5. Limitations

- 5.1 The potential effect of development on trees, whether statutorily protected (e.g. by tree preservation order or by their inclusion within a conservation area) or not, is a material consideration that is taken into account in dealing with planning applications. HWA have not checked whether trees on site are statutorily protected as this can delay production of the report. The applicant must carry out a statutory tree protection check if you intend to undertake any works prior to formal planning consent being issued.
- 5.2 All rights in this report are reserved. Its content and format are for the exclusive use of the addressee in dealing with this site. It may not be sold, lent, hired out or divulged to any third party not directly involved in this site without the written consent of Hallwood Associates Limited.
- 5.3 This report is restricted to those trees shown on the attached plans and described in the tree survey schedule. All plans and discussions within this report are based entirely on the drawings provided to Hallwood Associates and referenced above. Any material planning changes after the date of report issue will invalidate this report.
- 5.4 Hallwood Associates Ltd have undertaken their tree survey with due care and attention to identify accurately all tree species present at the time of survey. However, where surveys are undertaken when trees are out of leaf, if access is not granted or clear, or where insufficiently accurate tree location detail is provided by the client; trees may be grouped and general tree species composition listed.
- 5.5 The statements, findings and recommendations made within this report do not take into account any effects of extreme climate and weather incidences, vandalism, changes in the natural and built environment around the tree(s) after the date of this report, nor any damage whether physical, chemical or otherwise. Hallwood Associates cannot accept any liability in connection with the above factors, nor where recommended tree management is not carried out in accordance with modern tree health care techniques, within any proposed timeline.
- 5.6 Due to the above statements, this report remains valid for two years from the date of issue only.

6. Methodology

- 6.1 Each tree was surveyed and given a number corresponding to the provided plan(s) found at Appendix B. For each group or individual information was collected as recommended at 4.4.2.5 of BS 5837. The survey was preliminary in nature and did not involve aerial or detailed inspection. This data is held within the tree schedule which can be found at Appendix A.
- 6.2 BS5837 recommends that trees within categories A-C (where A is highest quality) are a material consideration in the development process. However, it should be noted that young trees with a stem diameter less than 150mm may be considered for relocation. Category U trees are those that will not be expected to exist for long enough to justify their consideration in the planning process. The A-C categories are combined with the numbers 1, 2 or 3. These numbers signify whether the justification for the category was based on arboricultural, landscape or cultural/conservation values respectively. The tree categories are illustrated on the plans with colour coding. **Category A trees are light green, category B are mid blue, category C are grey and category U are dark red.**
- 6.3 Where category U trees are notable for their conservation, heritage or landscape value, even though only for the short term, they may be upgraded, although they might be suitable for retention only where issues concerning their safety can be appropriately managed.
- 6.4 Section 4.6 of BS5837 recommends that the trunk diameter measurement for each tree is used to calculate the root protection area (RPA), which can then be interpreted to identify the design constraints and, once a layout has been developed to be protected by barriers (tree protection plan (TPP)).
- 6.5 Following inspection and grading of the trees, the information listed in Appendix A is used to provide constraints guidance to the project architect based on the locations of the best trees. All U trees are ignored as they not of good enough quality to be considered as a material constraint on development.
- 6.6 The enclosed tree protection plan (TPP) shows the trees proposed for retention, their relevant RPA and provisional positions for protective fencing, ground protection and any specially engineered surfacing.

7. The Site



This aerial image is provided courtesy of Google. The red dot indicated the area highlighted for review by Southwark Council.

- 7.1 The site was visited by Dominic Poston on 07 February 2024 and comprises an area of public open space containing a variety of native and naturalised trees and shrubs along with a infrastructure associated with public usage: such as pathways, lighting, bins and seating.
- 7.2 There are few individually prominent trees within the survey area, instead it is the cumulative effect upon local character – resulting in a wooded feel.
- 7.3 The British Geological Survey Online Geology Map indicates the soils on site contain clay
- 7.4 Precautions to prevent soil compaction to rooting zones of retained trees must be carefully specified on this site due to the presence of clay.

Part Two: Arboricultural Impact Assessment

This arboricultural impact assessment has taken account of all the recommendations set out in BS 5837 section 5.4, as reproduced below:

5.4 Arboricultural impact assessment

5.4.1 The project arboriculturist should use the information detailed in **5.2** and **5.3** to prepare an arboricultural impact assessment that evaluates the direct and indirect effects of the proposed design and where necessary recommends mitigation.

5.4.2 The assessment should take account of the effects of any tree loss required to implement the design, and any potentially damaging activities proposed in the vicinity of retained trees. Such activities might include the removal of existing structures and hard surfacing, the installation of new hard surfacing, the installation of services, and the location and dimensions of all proposed excavations or changes in ground level, including any that might arise from the implementation of the recommended mitigation measures. In addition to the impact of the permanent works, account should be taken of the buildability of the scheme in terms of access, adequate working space and provision for the storage of materials, including topsoil.

NOTE Scaled cross-sections and other drawings might be required to demonstrate the feasibility of the proposals (see Annex B).

5.4.3 As well as an evaluation of the extent of the impact on existing trees, the arboricultural impact assessment should include:

- a) the tree survey (see **4.4**);
- b) trees selected for retention, clearly identified (e.g., by number) and marked on a plan with a continuous outline;
- c) trees to be removed, also clearly identified (e.g., by number) and marked on a plan with a dashed outline or similar;
- d) trees to be pruned, including any access facilitation pruning, also clearly identified and labelled or listed as appropriate;
- e) areas designated for structural landscaping that need to be protected from construction operations in order to prevent the soil structure being damaged;
- f) evaluation of impact of proposed tree losses;
- g) evaluation of tree constraints (see **5.2**) and draft tree protection plan (see **5.5**);
- h) issues to be addressed by an arboricultural method statement (see **6.1**), where necessary in conjunction with input from other specialists.

8. The Proposal

8.1 Three drainage proposals within Russia Dock Woodland have been provided for assessment.

9. Arboricultural Features

9.1 There are nineteen (19) Trees and one (1) group of trees which have been categorised within influencing distance of the proposals. Below is a visual representation of the tree quality categorisation across the surveyed trees.

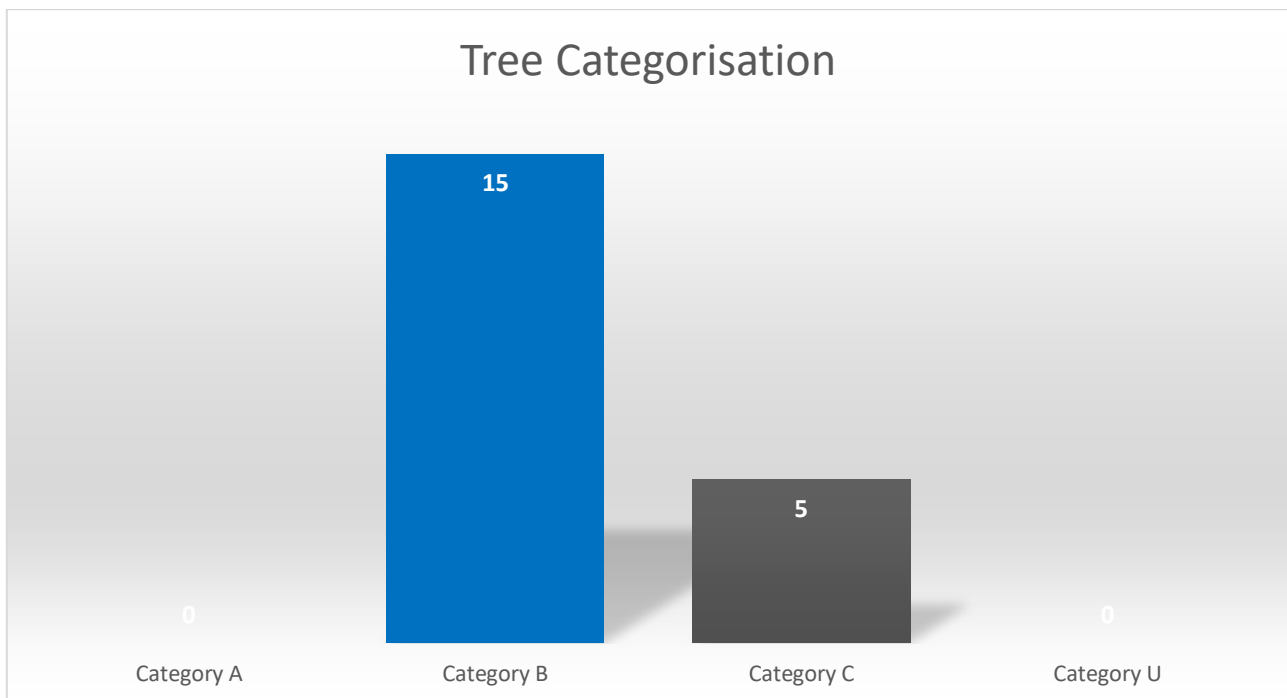


Figure 1: Tree categorisation (BS 5837: 2012)

9.2 A schedule of tree condition and category of retention (see 4.4 above) is attached at Appendix A.

10. Impact Assessment

10.1 This section evaluates the effects of the three provided proposals on trees on the site. The buildability of the project is considered, including access, site facilities, plant movement, parking etc.

10.2 Due to the stage of the project, full details of construction methods, service/utility routes, landscaping and finishes are not available, and a contractor may not have been appointed. Following planning consent, full details of tree protection and methods of work close to tree must be addressed in an Arboricultural Method Statement.

10.3 Following a review of the three proposals, an assessment of the impact on trees, and those that need protection using special precautions, is summarised below in Table 2:

British Standard 5837 Category & Reference Number			Impact	Reason	Mitigation
A	B	C			
OPTION 1					
None	T7	T1	Trees to be removed	Excavation within RPA	New planting in landscape phase and/or retained trees.
None	None	Grp1	Trees to be pruned	To make space for development	All works to BS 3998.
None	None	Grp1	RPA disturbance	Excavation for directional drill entrance	Targeted root pruning following initial hand excavation.
OPTION 2					
None	None	Part of Grp1	Trees to be removed	Excavation within RPA	New planting in landscape phase and/or retained trees.
None	None	Grp1	Trees to be pruned	To make space for development	All works to BS 3998.
None	None	Grp1	RPA disturbance	Excavation for directional drill entrance	Targeted root pruning following initial hand excavation.
OPTION 3					
None	T13 & T18	Part of Grp1 & T16	Trees to be removed	Excavation within RPA	New planting in landscape phase and/or retained trees.

PART TWO: ARBORETOLOGICAL IMPACT ASSESSMENT

None	T10	None	Trees to be pruned	To make space for development	All works to BS 3998.
None	T15	Grp1	RPA disturbance	Excavation for directional drill entrance	Targeted root pruning following initial hand excavation.

Table 2: Arboricultural Implications (T = Tree, G = Group, H = Hedge)

NB: All retained trees will be protected during development by using fencing and/or ground protection, and only those requiring special precautions to limit the impact of encroachment are listed in Table 1.

10.4 The arboricultural impacts arising from Option 1:

One low value (T1) and one moderate value (T7) tree will require removal to facilitate construction access, trench excavation and re-contouring. It is considered this loss will be mitigated through the retention of existing backdrop trees with the result that the effect upon local landscape character will be minor and limited to the short term only.

Minor root pruning and crown lifting is anticipated to facilitate adequate working space for the proposed directional drilling launching area.

10.5 The arboricultural impacts arising from Option 2:

Whereas Option 1 utilises directional drilling to access the site beneath Grp1, Option 2 proposes an open trench excavation. This will likely require a significant working area (minimum 5m wide), resulting in a correspondingly large tract of vegetation being removed. This will have a significant impact upon local amenity while new planting establishes post completion.

10.6 The arboricultural impacts arising from option 3:

One low value tree (T16), part of one low value group (Grp1) and two moderate value trees (T13 & T18) will require removal to facilitate construction access, trench excavation and re-contouring. This will result in a significant ‘gap’ or ‘scar’ across Russia Dock Woodland which will have a significant impact upon amenity value whilst new planting establishes.

Minor root pruning and crown lifting is anticipated to T10 and T15 to facilitate adequate working space, however it is considered these trees can be retained and protected with little anticipated risk of damage.

11. Conclusions

- 11.1 It is considered that Option 1 is preferable in arboricultural terms. It results in minimal short term impact upon local amenity and does not require significant new tree planting in mitigation.
- 11.2 Following the finalisation of a detailed design proposal, it will be necessary to commission an Arboricultural Method Statement (incorporating a Tree Protection Plan) in order to specify the tree protection measures and working methodologies required to ensure those trees shown for retention can be satisfactorily protected throughout development.

Appendix A: Tree Survey Schedule

(Ref) No.	Species	Height (m)	Number of stems	Stem diameter (cm)	Branch spread N (m)	Branch spread E (m)	Branch spread S (m)	Branch spread W (m)	Base of crown (m)	Physiological Condition	Structural Condition	Life Stage	NHBC Water Demand	Root Protection radius (M)	Root Protection Area (SqM)	Comments	Remaining contribution (yrs)	Value categorisation (BS 5837)
T1	Cypress	14	1	40	3.0	5.0	5.0	5.0	1.5	P	F	Mature	High	4.8	72	Dieback in upper crown and at branch tips. In suspected decline.	<10	C2
T2	Cypress	15	1	42.5	5.0	5.0	3.0	5.0	1	G	G	Mature	High	5.1	82	Prominent tree with good vitality and vigour.	20+	B2
T3	Poplar	16	1	42.5	7.0	6.0	7.0	6.0	4	G	G	Mature	High	5.1	82	Lean to SE. Previous lost lateral at 5m on S side.	20+	B2
T4	Willow	14	4	35 x 3, 20	3.0	5.0	7.0	5.0	4	G	F	Mature	High	7.8	191	Topped at 8m with vigorous re-growth.	20+	B2
T5	Willow	14	4	20, 30, 32.5, 37.5	6.0	5.0	3.0	3.0	4	G	F	Mature	High	7.5	177	Topped at 8m with vigorous re-growth.	20+	B2
T6	Robinia	12	1	27.5	5.0	6.0	4.0	3.0	4	F	G	Semi-Mature	Moderate	3.3	34	Reduced crown density.	20+	B2

(Ref) No.	Species	Height (m)	Number of stems	Stem diameter (cm)	Branch spread N (m)	Branch spread E (m)	Branch spread S (m)	Branch spread W (m)	Base of crown (m)	Physiological Condition	Structural Condition	Life Stage	NHBC Water Demand	Root Protection radius (M)	Root Protection Area (SqM)	Comments	Remaining contribution (yrs)	Value categorisation (BS 5837)
T7	Robinia	12	1	30	5.0	3.0	4.0	5.0	5	G	G	Semi-Mature	Moderate	3.6	41	Good vitality and vigour with no obvious disease or disorder.	20+	B2
T8	Poplar	14	1	27.5	5.0	6.0	5.0	7.0	6	G	F	Semi-Mature	High	3.3	34	Fair vitality and vigour with no obvious disease or disorder.	20+	B2
T9	Cypress	14	1	70	6.0	6.0	6.0	6.0	2	G	G	Mature	High	8.4	222	Prominent tree with good vitality and vigour.	20+	B2
T10	Maple	14	1	40	3.0	8.0	11.0	8.0	2	G	G	Semi-Mature	Moderate	4.8	72	Ivy on stem impeding inspection.	20+	B2
T11	Cypress	14	1	35	5.0	5.0	5.0	5.0	1	G	G	Mature	High	4.2	55	Prominent tree with good vitality and vigour.	20+	C2
T12	Cherry	12	1	37.5	7.0	7.0	6.0	4.0	3	G	G	Mature	Moderate	4.5	64	Bird box on stem. Growing within Grp1.	20+	B2

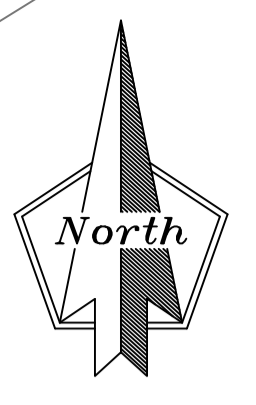
(Ref) No.	Species	Height (m)	Number of stems	Stem diameter (cm)	Branch spread N (m)	Branch spread E (m)	Branch spread S (m)	Branch spread W (m)	Base of crown (m)	Physiological Condition	Structural Condition	Life Stage	NHBC Water Demand	Root Protection radius (M)	Root Protection Area (SqM)	Comments	Remaining contribution (yrs)	Value categorisation (BS 5837)
T13	Willow	9	2	20, 25	3.0	3.0	5.0	9.0	3	G	F	Semi-Mature	High	3.9	48	Lean to SW.	20+	B2
T14	Cypress	14	1	45	6.0	6.0	6.0	6.0	1.5	F	G	Mature	High	5.4	92	Some browning to foliage.	20+	B2
T15	Poplar	14	1	72.5	8.0	9.0	9.0	6.0	1	G	G	Mature	High	8.7	238	Stem bifurcates at 1.5m above ground level. Ivy on stem impeding inspection.	20+	B2
T16	Cherry	6	5	20	4.0	6.0	6.0	5.0	2	G	G	Young	Moderate	2	13	Ivy on stem impeding inspection.	20+	C2
T17	Willow	10	1	55	5.0	3.0	3.0	4.0	5	F	F	Mature	High	6.6	137	Toppd at 9m with large diameter pruning cuts.	20+	C2
T18	Poplar	16	1	35	4.0	9.0	5.0	5.0	2	G	G	Semi-Mature	High	4.2	55	Leaning into site from grp1.	20+	B2

(Ref) No.	Species	Height (m)	Number of stems	Stem diameter (cm)	Branch spread N (m)	Branch spread E (m)	Branch spread S (m)	Branch spread W (m)	Base of crown (m)	Physiological Condition	Structural Condition	Life Stage	NHBC Water Demand	Root Protection radius (M)	Root Protection Area (SqM)	Comments	Remaining contribution (yrs)	Value categorisation (BS 5837)
T19	Poplar	12	1	30	2.0	9.0	10.0	3.0	2	G	G	Semi-Mature	High	3.6	41	Leaning into site from grp1.	20+	B2
Grp1	Mixed	<12	1	25	See plans				0	F	F	Semi-Mature	High	3	28	Dense group including hawthorn, poplar, cherry, laurel, ash, sycamore and others. Cumulative value as homogenous group but easily replaceable with new planting or natural regeneration over time.	20+	C2

Appendix B: Plans

APPENDIX B

Figure 1: Tree Constraints Plan HWA11079-TCP



SW EMH2
CL 5.51
IL 3.43
PL 2.97

Grp1 - C

T2

T1

T3

T4

T5

T12

T7

T6

T8

T11

T9

T10

T14

T18

T15

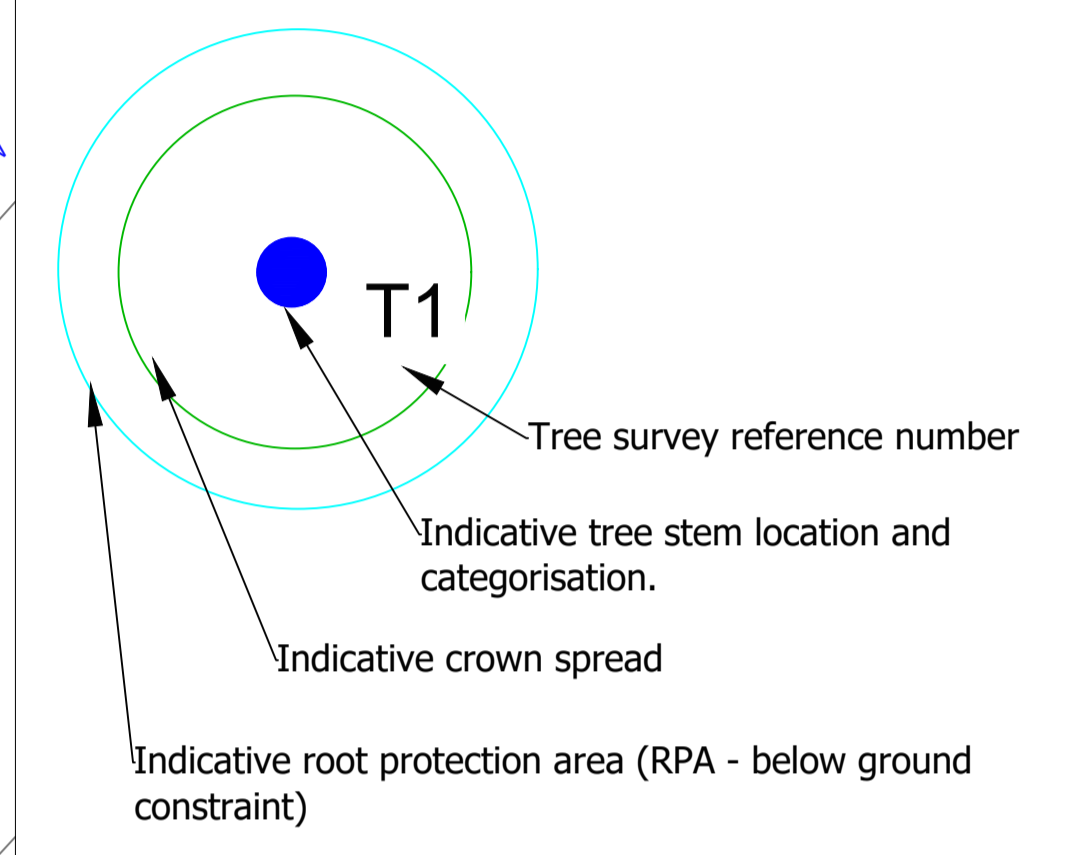
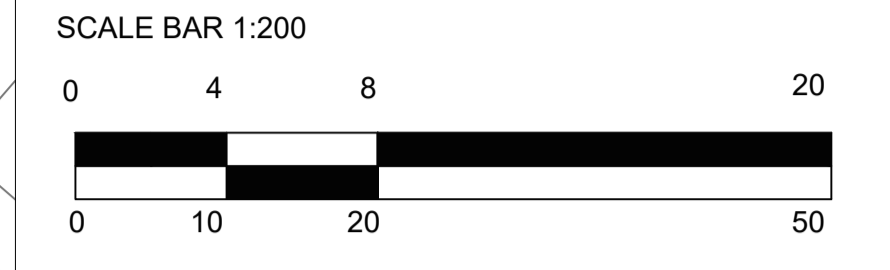
T19

T13

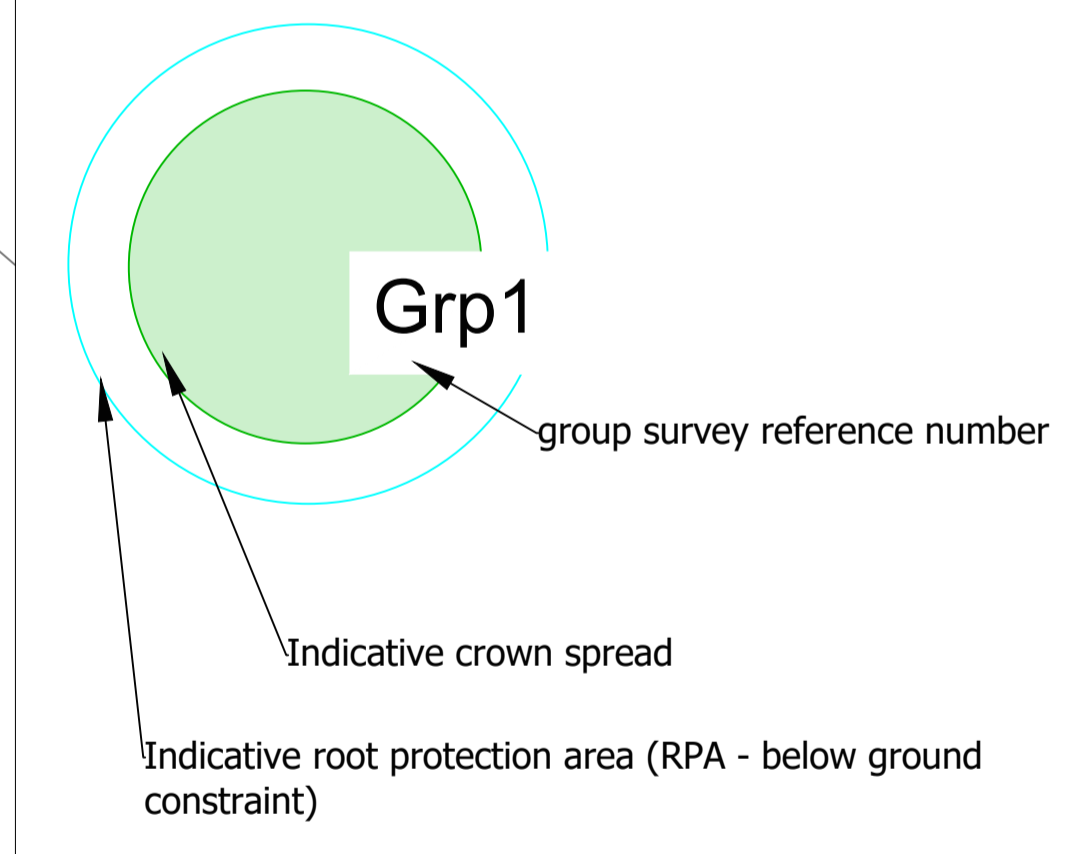
T16

T17

NOTE:
This drawing is to be read in conjunction with the Hallwood Associates arboricultural report. Do not scale from this drawing other than for the consideration of tree protection measures. Use only dimensions provided. This drawing was based upon drawings provided by the client. The original of this drawing is produced in colour and monochrome versions cannot be relied upon. This drawing is to be used only for the purposes indicated. It is the responsibility of the contractor to ensure any necessary consents are in place. This drawing is copyright and the property of Hallwood Associates Ltd (HWA) and must not be reproduced without prior written agreement.



- Tree stem location and value category according to BS 5837:
- Red - No value
- Grey - Low value
- Blue - Moderate value
- Green - High value



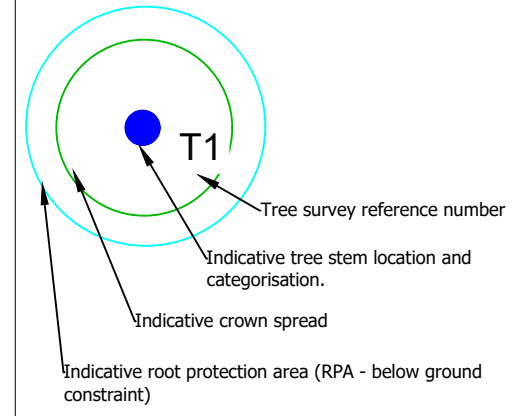
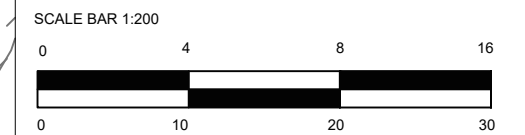
Rev.	Description.	Date.
 <p>HALLWOOD ASSOCIATES LTD t: 01621 770168 e: enquiries@hallwoodassociates.com</p>		
<p>Client: Southwark Council</p>		
<p>Site: Drainage Proposals: Russia Dock Woodland</p>		
<p>Drawing Title: Sheet 1 of 1 Tree Constraints Plan</p>		
Date:	13.02.24	Drawn By: DAP
Scale:	1:200 @ A1	Checked By: GLP
Drawing Number:	HWA11079-TCP	

APPENDIX B

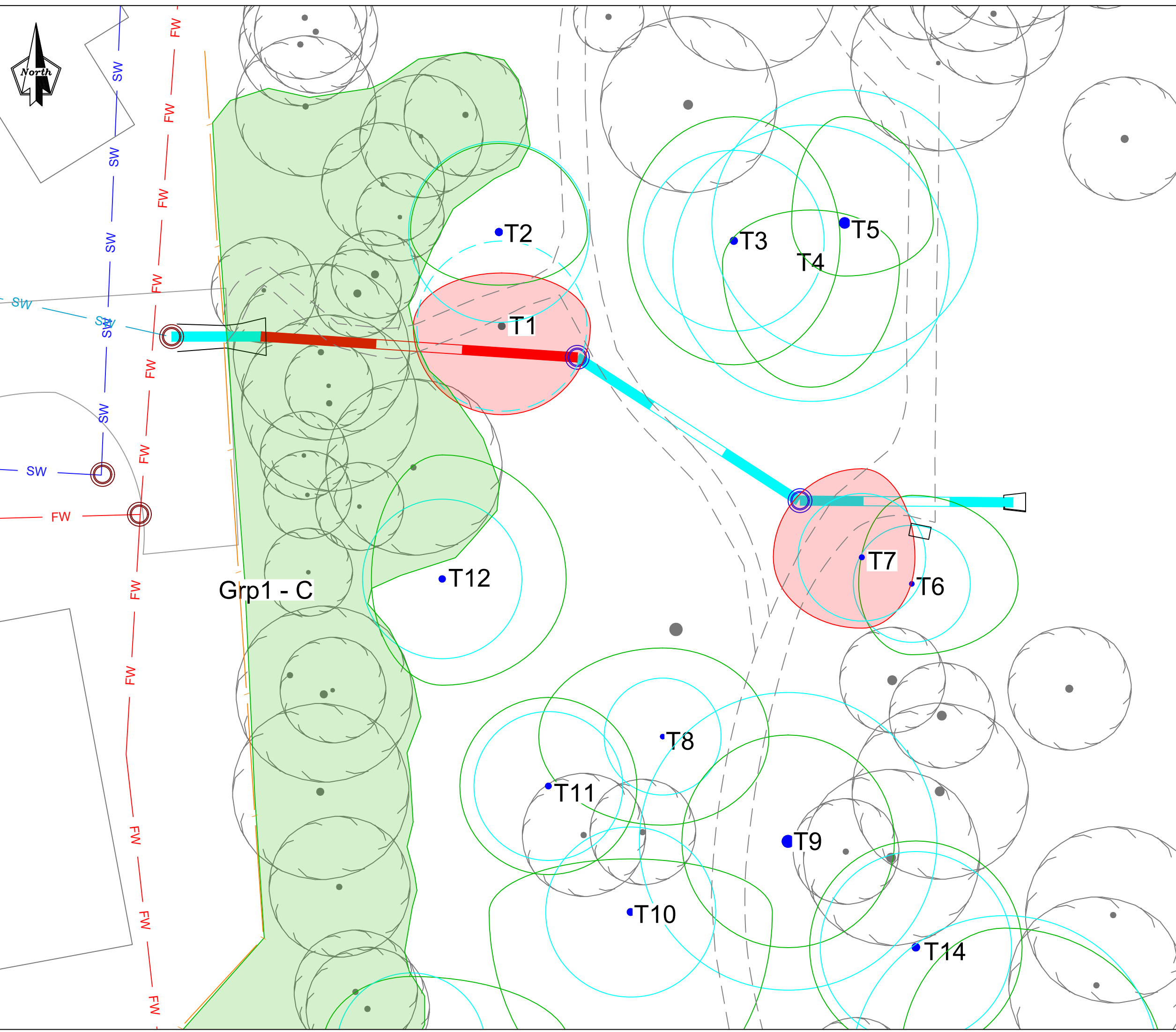
Figure 2: Tree Removal/Retention Plans HWA11079-TRRP-Opt1, HWA11079-TRRP-Opt2 and HWA11079-TRRP-Opt3

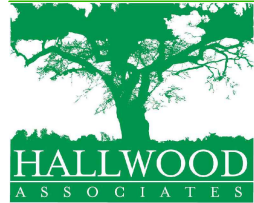


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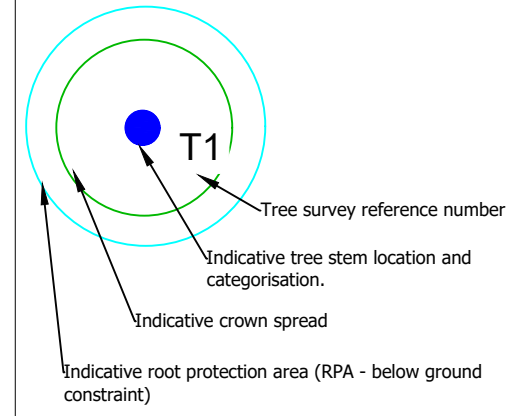
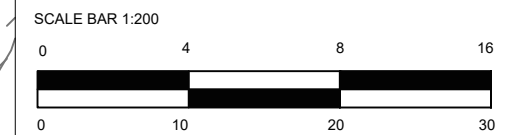
- Tree stem location and value category according to BS 5837:
Red - No value
 - Grey - Low value
 - Blue - Moderate value
 - Green - High value
- Trees proposed for removal to facilitate development.



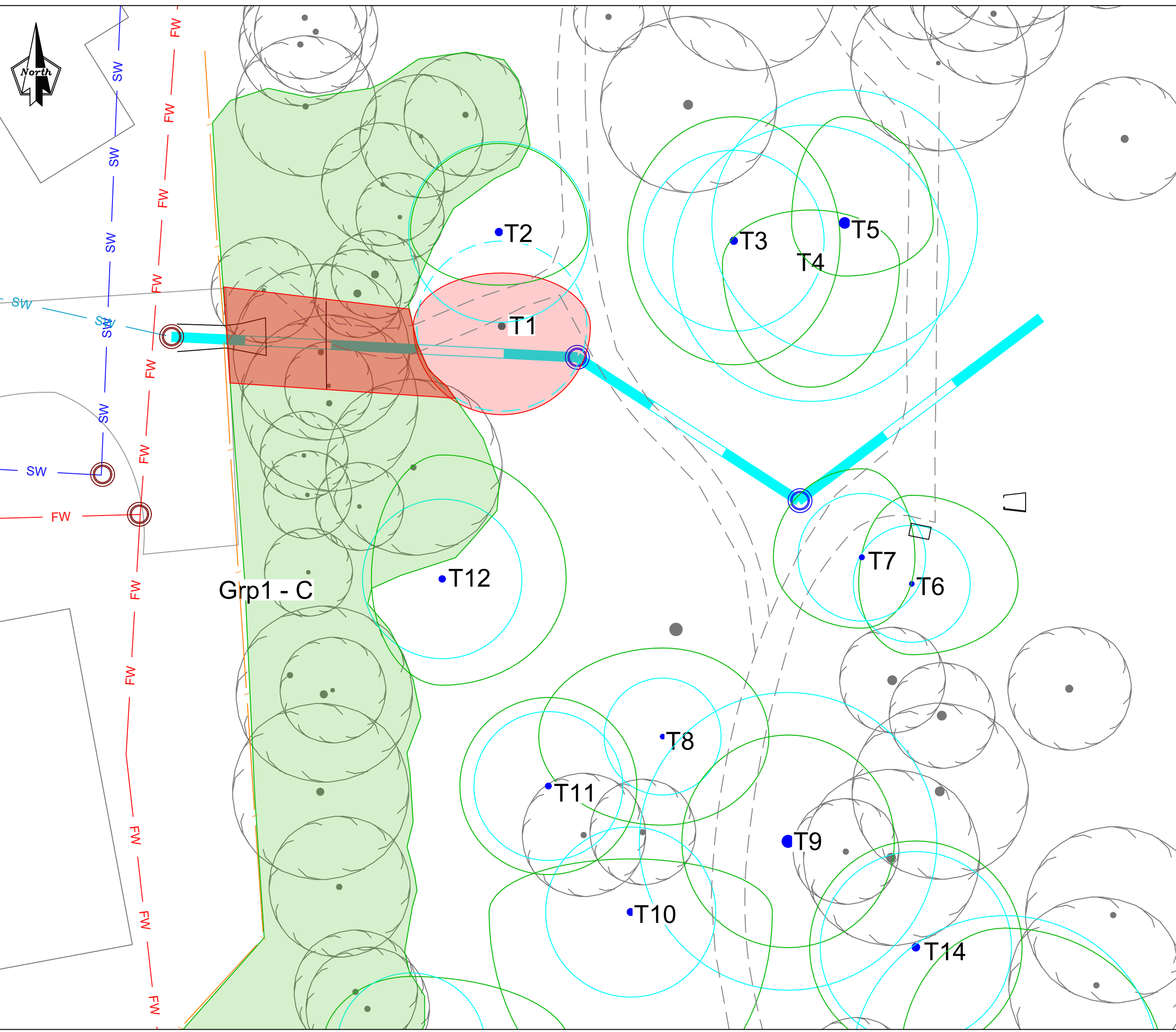
Rev.	Description	Date
 HALLWOOD ASSOCIATES LTD t: 01621 770168 e: enquiries@hallwoodassociates.com HALLWOOD ASSOCIATES ARBORICULTURAL AND WOODLAND CONSULTANTS		
Client: Southwark Council		
Site: Drainage Proposals: Russia Dock Woodland		
Drawing Title: Tree Removal/Retention Plan (Option 1) Sheet 1 of 3		
Date:	13.02.24	Drawn By: DAP
Scale:	1:200 @ A3	Checked By: GLP
Drawing Number:	HWA11079-TRRP-Opt1	



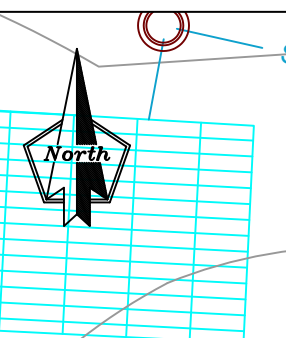
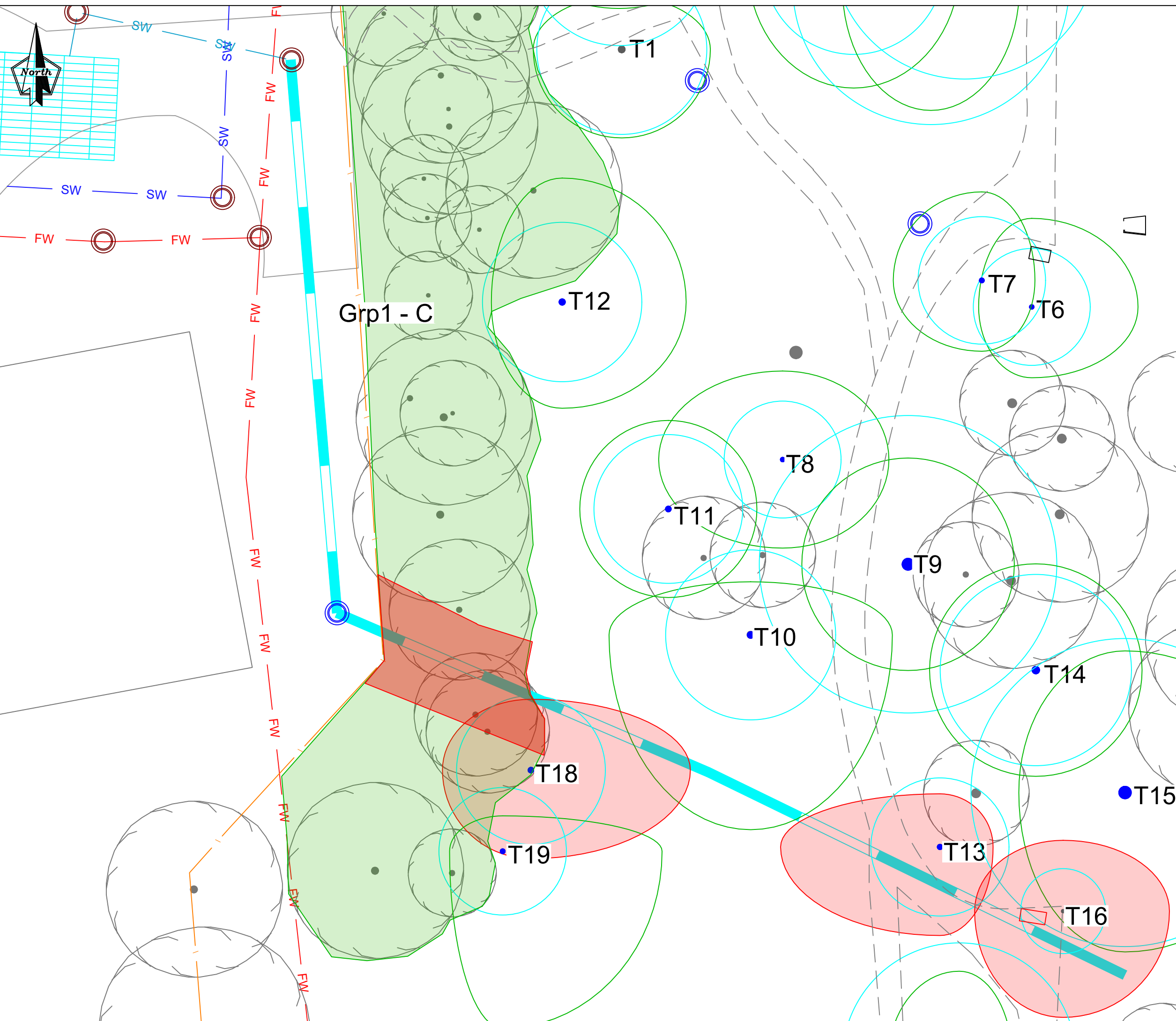
NOTE:
 This drawing is to be read in conjunction with supporting Hallwood Associates arboricultural report(s). Do not scale from this drawing other than for the consideration of tree protection measures. Use only dimensions provided. The original of this drawing was produced in colour and monochrome versions cannot be relied upon. This drawing is to be used only for the purposes indicated. It is the responsibility of the contractor to ensure any necessary consents are in place. This drawing is copyright and the property of Hallwood Associates Ltd (HWA) and must not be reproduced without prior written agreement.



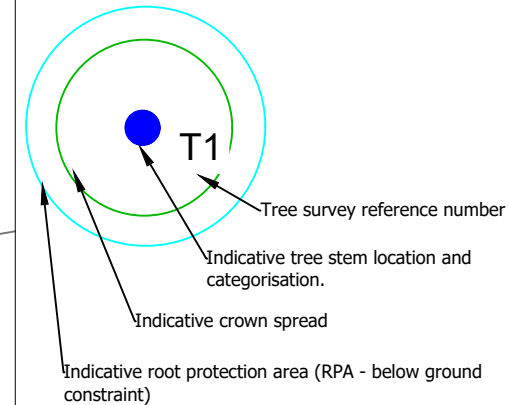
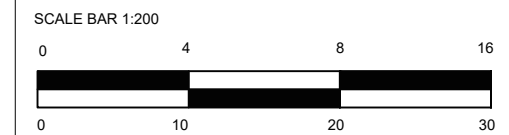
- Tree stem location and value category according to BS 5837:
- Red - No value
- Grey - Low value
- Blue - Moderate value
- Green - High value



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Client: Southwark Council		
Site: Drainage Proposals: Russia Dock Woodland		
Drawing Title: Tree Removal/Retention Plan (Option 2) Sheet 2 of 3		
Date:	13.02.24	Drawn By: DAP
Scale:	1:200 @ A3	Checked By: GLP
Drawing Number:	HWA11079-TRRP-Opt2	Rev.



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- Tree stem location and value category according to BS 5837:
Red - No value
- Grey - Low value
- Blue - Moderate value
- Green - High value



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Client:
Southwark Council

Site:
Drainage Proposals: Russia Dock Woodland

Drawing Title:
**Tree Removal/Retention Plan (Option 3)
 Sheet 3 of 3**

Date:	13.02.24	Drawn By:	DAP
Scale:	1:200 @ A3	Checked By:	GLP

Drawing Number: **HWA11079-TRRP-Opt3** Rev.