

Arboricultural Impact Assessment

Plus Tree Survey

**Plot L
Kingsway Park
Rochdale**

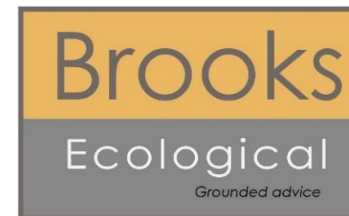
Report reference: AR-5429-02.02
March 2023
Revised August 2023
Revised October 2023

Report Title:	Arboricultural Impact Assessment Plot L, Kingsway Park, Rochdale.
Report Reference:	AR-5429-02.02
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QA review:	Victoria Black FdSc Arb Principal Arboricultural Consultant
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Date:	11.04.2023 Revised 30.08.2023 Revised 03.10.2023

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Contents

CONTENTS	3
SUMMARY STATEMENT.....	3
INTRODUCTION.....	4
IMPACT SCHEDULE	4
IMPLICATIONS FOR RETAINED TREES	8
TREES TO BE REMOVED	10
TREE SURVEY	

Tree Survey including Tree Constraints Plan DR-5429-01
Tree Protection Plan DR-5429-02.02

Summary Statement

The application site 'the Site' comprises an allocated plot – part of the wider Kingsway Business Park. The plot appears to have been subject to some preliminary works many years ago with some faint shallow ditches being dug, fences erected, creation of levels in some areas and planted bunds at the western edge. Additionally, Sudden Brook runs partway through the Site before being culverted for c. 30m at its northern reach. In recent years the Site appears to have been unmanaged allowing remaining vegetation to colonise un-impeded.

The Site lies towards the western edge of the Kingsway Business Park. To the south, east and north are a mixture of developed commercial units, some of which are still under construction. Immediately to the south a currently underdeveloped plot remains though this is also subject to a planning application for commercial units. To the west is sub-urban housing and amenity spaces associated with Rochdale.

The tree survey revealed a total of twenty-four individual trees and nine groups of trees. Of these, three trees and two groups of trees were identified as retention category 'B', twenty-one trees/groups were identified as retention category 'C' and two trees were identified as retention category 'U'. There were no retention category 'A' trees identified.

This report should be read in conjunction with the attached Tree Constraints Plan Ref: DR-5429-01, Tree Protection Plan Ref: DR-5429-02.02 and Tree Survey AR-5429-01.

A plan has been provided by the client to enable an impact assessment of the proposed works on the existing relevant trees within the Site.

Introduction

Purpose of the report

This report has been commissioned to provide professional independent, detailed arboricultural advice on relevant trees present at Plot L, Kingsway Park, Rochdale.

A plan has been provided by the client to enable an impact assessment of the proposed works on the existing relevant trees within the Site.

Impact Schedule

The following schedule identifies the individual tree and its retention category with the main feature(s) of the proposed works likely to cause an impact. The tree references are shown on the tree constraints plan and the tree protection plan. Any mitigation measures are noted.

Tree ref.	Species	Retention category	Proposal feature	Impact	Mitigation
G1	Mixed	C2	Proposed unit and retaining wall	Remove	Mitigation planting on site required
T2	Goat willow	C1	Proposed retaining wall	Remove	Mitigation planting on site required
T3	Lawson	B1	Proposed unit	Remove	Mitigation planting on site required
T4	Goat willow	C1	Proposed unit	Remove	Mitigation planting on site required
T5	Ash	C1	Close to proposed retaining wall	Some possible minor root loss	Tree protection fencing in accordance with BS 5837:2012 Arboricultural supervision required. Some very minor root pruning may be required.
T6	Ash	C1	Close to proposed retaining wall	Some possible minor root loss	Tree protection fencing in accordance with BS 5837:2012 Arboricultural supervision required. Some very minor root pruning may be required.
T7	Hawthorn	C1	None	No impact of RPA or canopy expected	Tree protective fencing in line with BS 5837:2012 required
T8	Ash	C1	Close to proposed retaining wall	Some possible minor root loss	Tree protection fencing in accordance with BS 5837:2012 Arboricultural supervision required. Some very minor root pruning may be required.
T9	Sycamore	C1	None	No impact of RPA or canopy expected	Tree protective fencing in line with BS 5837:2012 required

Tree ref.	Species	Retention category	Proposal feature	Impact	Mitigation
T10	Sycamore	C1	Close to proposed retaining wall	Some possible minor root loss	Tree protection fencing in accordance with BS 5837:2012 Arboricultural supervision required. Some very minor root pruning may be required.
T11	Sycamore	B1	Proposed retaining wall & development	Remove	Mitigation planting required in site.
T12	Cherry	U	-	Remove for arboricultural reasons only	-
T13	Cherry	U	-	Remove for arboricultural reasons only	-
T14	Sycamore	B1	Close to proposed retaining wall	Some possible minor root loss	Tree protection fencing in accordance with BS 5837:2012 Arboricultural supervision required. Some very minor root pruning may be required.
G15	Mixed	B2	None	No impact of RPA or canopy expected	Tree protective fencing in line with BS 5837:2012 required
T16	Birch	C1	Proposed car park	Remove	Mitigation planting required in site.
G17	Mixed	C2	Close to proposed footpath and unit	Some management required	Tree protection fencing in accordance with BS 5837:2012 Arboricultural supervision required. Possible crown lift required.

Tree ref.	Species	Retention category	Proposal feature	Impact	Mitigation
G18	Mixed	B2	Close to proposed development	Some minor removals along edge maybe possibly required. Some management required	Mitigation planting required in site. Tree protection fencing in accordance with BS 5837:2012 Arboricultural supervision required. Possible crown lift/reduction required.
T19	Goat willow	C1	Proposed development	Remove	Mitigation planting required in site.
T20	Goat willow	C1	Proposed development	Remove	Mitigation planting required in site.
T21	Goat willow	C1	Proposed development	Remove	Mitigation planting required in site.
T22	Goat willow	C1	Proposed development	Remove	Mitigation planting required in site.
G23	Goat willow Hawthorn Poplar	C2	Proposed development	Remove	Mitigation planting required in site.
T24	Goat willow	C2	Proposed development	Remove	Mitigation planting required in site.
G25	Goat willow Hawthorn Poplar	C2	Proposed development	Remove	Mitigation planting required in site.
T26	Willow	C2	Proposed development	Remove	Mitigation planting required in site.
T27	Goat willow	C2	Proposed development	Remove	Mitigation planting required in site.
T28	Goat willow	C2	Proposed development	Remove	Mitigation planting required in site.
G29	Poplar	Fair	Proposed development	Remove	Mitigation planting required in site.
G30	Goat willow	C2	Proposed development	Remove	Mitigation planting required in site.
T31	Cherry	C1	Proposed culvert Close to proposed development	Remove	Mitigation planting required in site.

Tree ref.	Species	Retention category	Proposal feature	Impact	Mitigation
T32	Cherry	C1	Close to proposed development	Some management required	Tree protection fencing in accordance with BS 5837:2012 Arboricultural supervision required. Possible crown lift/reduction required.
G33	Mixed	C2	Close to proposed development Proposed culvert	Some removals required. Some management required	Mitigation planting required in site. Tree protection fencing in accordance with BS 5837:2012 Arboricultural supervision required. Possible crown lift/reduction required.

Implications for retained trees

Tree protection

3. Trees and tree groups should be protected from unwanted damage during construction works with temporary tree protection barriers. The barriers should be erected to the outer edge of the tree canopy or the edge of the RPA, whichever is the furthest away from the tree, unless otherwise indicated on the Tree Protection Plan.
4. Tree protection barriers should be the default specification for protective barrier, Figure 2, BS 5837: 2012 Trees in relation to design, demolition and constructions – Recommendations. Where Site circumstances prevent the use of the default barrier, an alternative specification would be recommended by the project arboriculturist with agreement of the local planning authority.
5. All-weather notices should be attached to the barrier with words such as: "Construction exclusion zone – no access".

6. Where facilitation access is authorised within the RPA temporary ground protection should be installed prior to work starting on Site. The temporary ground protection should be capable of supporting the weight of any traffic/machinery using the Site without being distorted or causing compaction to the ground. It is recommended that the ground of the possible Site compound/storage area is covered in temporary ground protection to minimise soil damage by compaction and conserve soil health through to post-construction planting in this area.

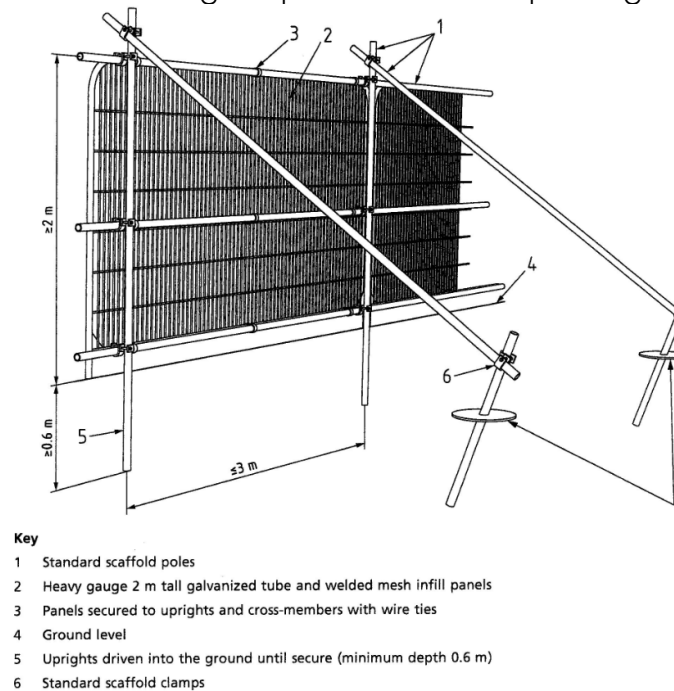


Figure 1

Tree work

7. Where pruning work is necessary and authorised to roots or branches of retained trees to enable facilitation works, it should be carried out by a competent contractor in accordance with BS 3998: 2010 Tree Works – Recommendations.

8. G17, G18 & G33 require some management.

Drainage and utilities

9. Drainage and utilities are expected to be included within the proposed Site works and should not involve digging or trenching within RPA's.

Ground level changes

10. It is our understanding that no ground level changes are required within the root protection area of any tree on this site.

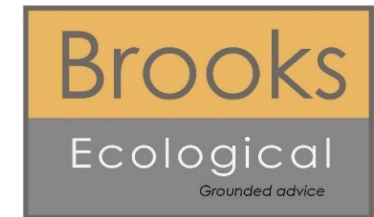
Boundary features

11. Possibly boundary fencing is proposed within the RPA's of some of the retained trees on site. In order to minimise root damage to these trees, excavation must be kept to a minimum. A fence designs requiring intermittent posts will be acceptable and the post holes must not be excavated by mechanical means but may be either dug by hand (with any roots found cleanly severed) or the posts may be driven into the ground.
12. All works within RPA's should supervised by Brooks Ecological.

Trees to be removed

13. Five groups (G1, G23, G25, G29 & G30) and thirteen individual trees (T2, T3, T4, T11, T16, T19, T20, T21, T22, T24, T26, T27, T28 & T31), and sections of two groups (G18 & G33) are expected to be removed to facilitate the development.

Tree Survey



Tree Survey

**Plot L
Kingsway Park
Rochdale**

Report reference: AR-5429-01
March 2023

Report Title:	Tree Survey Plot L, Kingsway Park, Rochdale.
Report Reference:	AR-5429-01
Written by:	Victoria Black FdSc Arb Principal Arboricultural Consultant
Technical review:	Victoria Black FdSc Arb Principal Arboricultural Consultant
QA review:	Victoria Black FdSc Arb Principal Arboricultural Consultant
Approved for issue:	Victoria Black FdSc Arb Principal Arboricultural Consultant
Date:	17.03.2023



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Contents

CONTENTS	13
SUMMARY STATEMENT.....	13
INTRODUCTION.....	14
TREE DATA ABBREVIATIONS AND SURVEY METHODOLOGY	16
TREE DATA	19
FINDINGS.....	26
APPENDIX 1: DR-5429-01 TREE CONSTRAINTS PLAN	

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The tree survey revealed a total of twenty-four individual trees and nine groups of trees. Of these, three trees and two groups of trees were identified as retention category 'B', twenty-one trees/groups were identified as retention category 'C' and two trees were identified as retention category 'U'. There were no retention category 'A' trees identified.

This report should be read in conjunction with the attached Tree Constraints Plan Ref: DR-5429-01.

Introduction

Purpose of the report

2. This report has been commissioned to provide professional independent, detailed arboricultural advice on all relevant trees present at Plot L, Kingsway Park, Rochdale.
3. This report has been undertaken in accordance with BS 5837:2012 Trees in relation to construction – Recommendations.
4. The client has provided a topographical plan.
5. All findings and recommendations are based on visual observations conducted from ground level during the Site visit only. No other diagnostic procedures were used to establish any extent of internal decay nor was a climbing inspection undertaken.
6. All measurements were obtained with the use of a clinometer and an electronic distometer. On occasion it is not viable to provide accurate measurements due to restricted access or other mitigating circumstances on site, and the data may be estimated.

Legal implications of work to trees

7. Due to the potentially large penalties for illegally carrying out work to protected trees, it is recommended that a check with the local planning authority is carried out prior to any tree works being undertaken and any required consents such as for work to trees with Tree Preservation Orders and/or Conservation Areas are obtained before work to trees on site. Additionally, work to trees at certain times of the year may contravene sections of the Wildlife and Countryside Act regarding nesting and roosting of protected species.

8. Every tree owner has a general duty of care to ensure their tree(s) does not pose an unacceptable risk to other people on or adjacent to their land. The landowner will only be liable for injury or damage caused by trees if they are found to be negligent.
9. There is no legal obligation for a tree owner to cut back growth from a neighbouring property. However, under Common law of tort of nuisance, an affected neighbour has the right to cut back roots or branches that encroach onto a neighbouring property back to the boundary of the land owned by the person abating the nuisance without the neighbour's consent (with the exception of TPO's or CA's). The person abating the nuisance has a duty to exercise reasonable care in carrying out work as a failure to do so may lead to liability in negligence (for example where removal of roots makes a tree unstable).

Site description

10. The application site 'the Site' comprises an allocated plot – part of the wider Kingsway Business Park. The plot appears to have been subject to some preliminary works many years ago with some faint shallow ditches being dug, fences erected, creation of levels in some areas and planted bunds at the western edge. Additionally, Sudden Brook runs partway through the Site before being culverted for c. 30m at its northern reach. In recent years the Site appears to have been unmanaged allowing remaining vegetation to colonise un-impeded.
11. The Site lies towards the western edge of the Kingsway Business Park. To the south, east and north are a mixture of developed commercial units, some of which are still under construction. Immediately to the south a currently underdeveloped plot remains though this is also subject to a planning application for commercial units. To the west is sub-urban housing and amenity spaces associated with Rochdale.



Red line boundary

Survey conditions

12. The trees were surveyed in cool, alternately overcast and bright conditions on 15th March 2023.

Tree data abbreviations and survey methodology

T	Tree	GL	Ground level
G	Tree group	MS	Multi-stemmed
H	Hedge	AFP	Access facilitation pruning
OSB	Outside Site boundary	Ave	Average dimension
#/est	Estimated dimension	Typ	Typical dimension

N	North	E	South
S	South	W	West
Min	Minimum	Lwr	Lower
adj	Adjacent	Ht	Height

13. The trees were assessed visually from ground level. Where access to a tree is restricted this is noted in the schedule.
14. The tree reference numbers refer to the attached Tree Constraints Plan (TCP) references. The trees were not tagged for this survey.
15. The tree species is listed by common name in the schedules, with a key to scientific names below:

Common name	Botanical name	Common name	Botanical name
Alder (common)	<i>Alnus glutinosa</i>	Goat willow	<i>Salix caprea</i>
Alder (grey)	<i>Alnus incana</i>	Hawthorn	<i>Crataegus monogyna</i>
Apple	<i>Malus domestica</i>	Hazel	<i>Corylus avellana</i>
Aspen	<i>Populus tremula</i>	Holly	<i>Ilex aquifolium</i>
Ash	<i>Fraxinus excelsior</i>	Hornbeam	<i>Carpinus betulus</i>
Beech	<i>Fagus sylvatica</i>	Larch	<i>Larix decidua</i>
Birch (silver)	<i>Betula pendula</i>	Lime (common)	<i>Tilia x europaea</i>
Birch (downy)	<i>Betula pubescens</i>	Lime (small-leaved)	<i>Tilia cordata</i>
Chestnut (sweet)	<i>Castanea sativa</i>	Maple (field)	<i>Acer campestre</i>
Chestnut (horse)	<i>Aesculus hippocastanum</i>	Maple (Norway)	<i>Acer platanoides</i>
Cherry (wild)	<i>Prunus avium</i>	Poplar (black)	<i>Populus nigra</i>
Cherry (bird)	<i>Prunus padus</i>	Oak (sessile)	<i>Quercus petraea</i>
Cherry (Japanese)	<i>Prunus serrulata</i>	Oak (pendunculate)	<i>Quercus robur</i>
Leyland Cypress	<i>X Cupressocyparis leylandii</i>	Rowan/mountain ash	<i>Sorbus aucuparia</i>
Elm (English)	<i>Ulmus procera</i>	Sycamore	<i>Acer pseudoplatanus</i>
Elm (wych)	<i>Ulmus glabra</i>	Weeping willow	<i>Salix chrysocoma</i>
		Whitebeam (Swedish)	<i>Sorbus intermedia</i>

16. Measurement of the existing height above ground level of the first significant branch and the direction of growth and the height of the canopy. This informs ground clearance, crown/stem ratio and shading.
17. The stem/trunk diameter is measured with a diameter tape at 1.5m from ground level around the stem for single stem trees and for multi-stemmed trees and other variants in accordance with Annex C of the British Standard. Where access restricts measurement of the tree, an estimate has been made, denoted by '#'.
18. Canopy spread is measured with an electronic distometer. The close-spacing of some of the trees impeded measurements of canopy spread and height and estimates were made.
19. The age of the tree is based on the typical longevity of the particular tree species. The age classes are: young (Y), semi-mature (SM), early mature (EM), mature (M), over-mature (OM) and veteran (V).
20. The physiological condition of the tree is an assessment of its likely health, vigour and stress. The classes for physiological condition are: good, fair, poor and dead.
21. Structural condition includes tree form, visible defects, irregularities and influencing factors.
22. Preliminary management recommendations note work (with prior approval where necessary) to promote the health and longevity of the tree and/or improve safety and/or increase habitat potential.
23. The life expectancy (life exp.) is the estimated remaining contribution in years, (<10, 10+, 20+, 40+).
24. The retention category (ret cat) for each tree is assessed in accordance with BS 5837: 2012 Table 1, summarised as below:

Category A	Trees of high quality with an estimated remaining life expectancy (ERC) of at least 40 years. Green canopy outline on plan.
Category B	Trees of moderate quality with an estimated ERC of at least 20 years. Blue canopy outline on plan.

Category C Trees of low quality with an ERC of at least 10 years, OR young trees with a stem diameter below 150mm. Grey canopy outline on plan.

Category U Trees in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years. Trees unsuitable for retention. Dark red canopy outline on plan.

25. Sub- categories of 1, 2 or 3 are included in the tree data tables and are defined as follows:

Sub-category 1 trees are those with 'mainly arboricultural value'

Sub-category 2 trees are those with 'mainly landscape value'

Sub-category 3 trees are those with 'mainly cultural or conservation value'.

26. The root protection area (RPA) in m² is for layout purposed and indicates the 'minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority'. The RPA is calculated in accordance with BS 5837: 2012 Annex D. Where Site features are likely to have distorted the typical RPA, a polygon of the same area is estimated on plan to reflect a more realistic shape, in accordance with the British standard.

Tree data

27. The following schedule contains the tree data obtained on site:

Ref	Species	Life stage	Ht (m)	Can Ht (m)	Stem diam (mm)	Canopy spread (m)	Physio logical	Structural condition	Description	Recommendations	Life exp. (yrs)	Ret cat
G1	Mixed	Y-EM	To 16	0+	To 300	See plan	Fair	Fair	Group contains Cherry, goat willow, sycamore, alder and birch with an understorey of occasional hawthorn. Birds nest noted. On uneven ground.	No action required	20+	C2
T2	Goat willow	EM	12	0.5	290 at base	N 5 E 5 S 5 W 5	Fair	Fair	Multiple stemmed at 1m with a balanced canopy. Nice form. Minor bark wounds through. No major defects visible.	No action required	20+	C1
T3	Lawson	M	17	4	690	N 4 E 4 S 4 W 4	Good	Fair	Single stemmed and vertical with a balanced canopy. Deadwood due to shading. No major defects visible.	No action required	20+	B1
T4	Goat willow	M	15	0+	To 100 x 5 220 250	N 5 E 5 S 5 W 5	Fair	Fair	Multiple stemmed at ground level with an unbalanced canopy. Fused and rubbing branches. Deadwood and stubs evident with canopy. Minor bark wounds through.	No action required	10+	C1
T5	Ash	EM	17	1.8	310	N 3 E 5 S 3 W 1	Fair	Fair	Twin stemmed at 2m with an unbalanced canopy. Sucker growth at base. Overhanging boundary. Deadwood and stubs evident with canopy.	No action required	10+	C1
T6	Ash	SM	15	2	280	N 2 E 1 S 3 W 4	Fair	Fair	Single stemmed and vertical with an unbalanced canopy. No major defects visible.	No action required	10+	C1
T7	Hawthorn	EM	7	4	To 100 x 5	N 2.5 E 2.5 S 2.5 W 2.5	Fair	Fair/poor	Multiple stemmed at ground level with a balanced canopy. Dead section within canopy. Covered in dense ivy.	No action required	10+	C1

Ref	Species	Life stage	Ht (m)	Can Ht (m)	Stem diam (mm)	Canopy spread (m)	Physio logical	Structural condition	Description	Recommendations	Life exp. (yrs)	Ret cat
T8	Ash	EM	16	2	230 290	N 5 E 5 S 5 W 5	Fair	Fair	Twin stemmed at ground level with a balanced canopy. Covered in dense Ivy. Minor bark wounds throughout. Overhanging road. Deadwood and stubs evident with canopy.	No action required	20+	C1
T9	Sycamore	SM	15	2	300	N 4 E 4 S 5 W 5	Fair	Fair	Single stemmed and vertical with a balanced canopy. Growing between brick wall. Overhanging boundary. Deadwood and stubs evident with canopy.	No action required	20+	C1
T10	Sycamore	M	16	2	360 390	N 6.5 E 4.5 S 5.5 W 1.5	Fair	Fair/poor	Twin stemmed at 1.5m with an unbalanced canopy. Overhanging road and boundary. Epicormic growth at base. Cracks on bark. Water pocket at union.	Monitor condition annually Crown clean	20+	C1
T11	Sycamore	M	16	2	790	N 6 E 2.5 S 5.5 W 2	Good	Fair	Twin stemmed at 1.5m with an unbalanced canopy. Overhanging boundary and road. Deadwood and stubs evident with canopy. Epicormic growth at base.	Crow clean	20+	B1
T12	Cherry	-	-	-	-	-	-	-	Dead tree	Remove	<10	U
T13	Cherry	M	15	2	510	N 2.5 E 3 S 4 W 2	Poor	Poor	Half of tree is in a collapsed state. Only half a canopy. Ripped stems.	Remove	<10	U

Ref	Species	Life stage	Ht (m)	Can Ht (m)	Stem diam (mm)	Canopy spread (m)	Physio logical	Structural condition	Description	Recommendations	Life exp. (yrs)	Ret cat
T14	Sycamore	M	15	2	320 350	N 4.5 E 2 S 5 W 4.5	Good	Fair	Twin stemmed at 1m with an unbalanced canopy. Deadwood and stubs evident with canopy. Overhanging boundary.	Crown clean	20+	B1
G15	Mixed	SM-EM	To 17	0+	To 370	See plan	Good	Fair	Group contains ash, sycamore, cherry, oak, sweet chestnut. No access due to fencing. Overhanging road and boundary. Deadwood and stubs evident with canopy.	No action required	20+	B2
T16	Birch	SM	11	3	160	N 3 E 3 S 3 W 3	Fair	Fair	Single stemmed and vertical with a balanced canopy. No major defects visible.	No action required	20+	C1
G17	Mixed	EM	To 16	0+	To 350	See plan	Fair	Fair	Situated on adjacent land. No access resulting in very limited inspection. Willow is growing through fence. Overhanging boundary. Group contains willow, goat willow and birch. Deadwood and stubs evident with canopy.	No action required	20+	C2
G18	Mixed	Y-M	To 17	0+	To 400	See plan	Good	Fair	Group contains goat willow, alder, birch, ash, hawthorn, poplar. Dense group.	No action required	20+	B2

Ref	Species	Life stage	Ht (m)	Can Ht (m)	Stem diam (mm)	Canopy spread (m)	Physio logical	Structural condition	Description	Recommendations	Life exp. (yrs)	Ret cat
T19	Goat willow	SM	7	0+	To 100 x 5	N 3 E 3 S 3 W 3	Fair	Fair	Multiple stemmed at ground level with a balanced canopy. Typical of species. Minor bark wounds throughout. Minor Deadwood and stubs evident with canopy.	No action required	20+	C1
T20	Goat willow	SM	7	0+	To 100 x 5	N 3 E 3 S 3 W 3	Fair	Fair	Multiple stemmed at ground level with a balanced canopy. Typical of species. Minor bark wounds throughout. Minor Deadwood and stubs evident with canopy.	No action required	20+	C1
T21	Goat willow	SM	7	0+	To 100 x 5	N 3 E 3 S 3 W 3	Fair	Fair	Multiple stemmed at ground level with a balanced canopy. Typical of species. Minor bark wounds throughout. Minor Deadwood and stubs evident with canopy.	No action required	20+	C1
T22	Goat willow	SM	7	0+	To 100 x 5	N 3 E 3 S 3 W 3	Fair	Fair	Multiple stemmed at ground level with a balanced canopy. Typical of species. Minor bark wounds throughout. Minor Deadwood and stubs evident with canopy.	No action required	20+	C1
G23	Goat willow Hawthorn Poplar	SM	To 8	0+	To 200	See plan	Fair	Fair	Multiple stemmed at ground level with an unbalanced canopy. Typical of species. Minor bark wounds throughout. Minor Deadwood and stubs evident with canopy.	No action required	20+	C2

Ref	Species	Life stage	Ht (m)	Can Ht (m)	Stem diam (mm)	Canopy spread (m)	Physio logical	Structural condition	Description	Recommendations	Life exp. (yrs)	Ret cat
T24	Goat willow	SM	7	0+	To 100 x 5	N 3 E 3 S 3 W 3	Fair	Fair	Multiple stemmed at ground level with a balanced canopy. Typical of species. Minor bark wounds throughout. Minor Deadwood and stubs evident with canopy.	No action required	20+	C2
G25	Goat willow Hawthorn Poplar	SM	To 8	0+	To 200	See plan	Fair	Fair	Multiple stemmed at ground level with an unbalanced canopy. Typical of species. Minor bark wounds throughout. Minor Deadwood and stubs evident with canopy. Birds nest noted.	No action required	20+	C2
T26	Willow	SM	7	0+	To 70 x 15	N 3 E 3 S 3 W 3	Fair	Fair	Multiple stemmed at ground level with a balanced canopy. Typical of species. Minor bark wounds throughout. Minor Deadwood and stubs evident with canopy.	No action required	20+	C2
T27	Goat willow	EM	14	0+	To 250 x 5	N 3 E 3 S 3 W 3	Fair	Fair	Multiple stemmed at ground level with a balanced canopy. Typical of species. Minor bark wounds throughout. Minor Deadwood and stubs evident with canopy.	No action required	20+	C2
T28	Goat willow	SM	7	0+	To 100 x 5	N 3 E 3 S 3 W 3	Fair	Fair	Multiple stemmed at ground level with a balanced canopy. Typical of species. Minor bark wounds throughout. Minor Deadwood and stubs evident with canopy.	No action required	20+	C2

Ref	Species	Life stage	Ht (m)	Can Ht (m)	Stem diam (mm)	Canopy spread (m)	Physio logical	Structural condition	Description	Recommendations	Life exp. (yrs)	Ret cat
G29	Poplar	SM	To 9	0+	To 270	See plan	Fair	Fair	Single stemmed and vertical with an unbalanced canopy. Typical of species. Deadwood and stubs evident with canopy.	Fair	Fair	Fair
G30	Goat willow	SM	To 9	0+	To 250	See plan	Fair	Fair	Multiple stemmed at ground level with a balanced canopy. Typical of species. Minor bark wounds throughout. Minor Deadwood and stubs evident with canopy.	No action required	20+	C2
T31	Cherry	EM	15	2	280 265	N 5 E 7 S 8.5 W 2	Fair	Fair	Twin stemmed at 0.5m with an unbalanced canopy. Deadwood and stubs evident with canopy. Overhanging boundary. Within G33. Minor bark wounds throughout.	Crown clean	20+	C1
T32	Cherry	EM	15	2	310	N 6 E 3 S 9.5 W 7	Fair	Fair	Single stemmed and vertical with an unbalanced canopy. Deadwood and stubs evident with canopy. Overhanging boundary. Within G33. Minor bark wounds throughout.	Crown clean	20+	C1
G33	Mixed	T-EM	To 16	0+	To 300	See plan	Fair	Fair	Group contains cherry, alder, goat willow, sycamore and hawthorn. Dead elder. Deadwood and stubs evident with canopy. Overhanging boundary. Scrappy group.	Crown clean	20+	C2

Findings

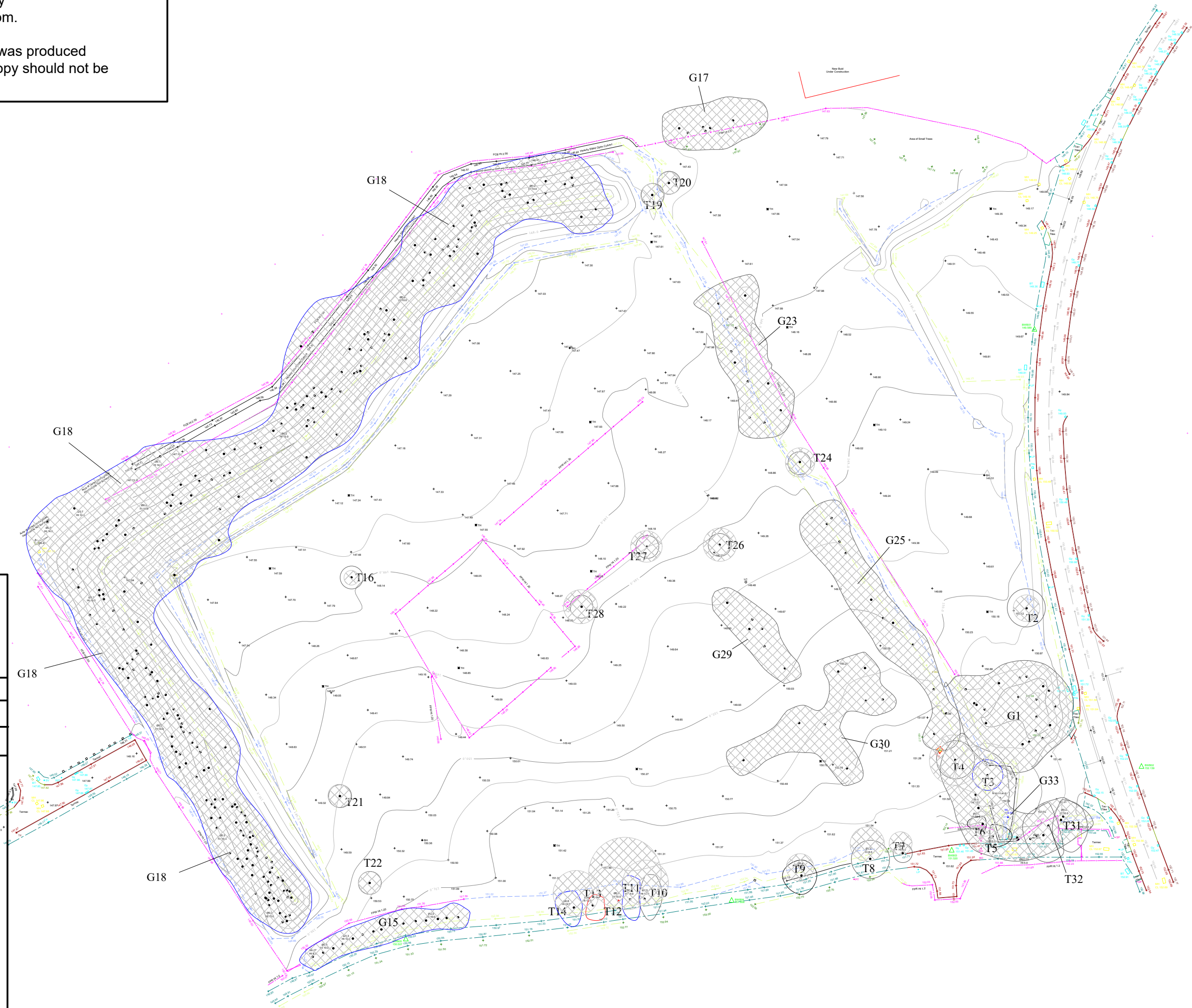
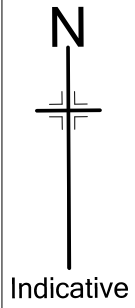
Tree descriptions and recommendations

28. The tree survey revealed a total of twenty-four individual trees and nine groups of trees. Of these, three trees and two groups of trees were identified as retention category 'B', twenty-one trees/groups were identified as retention category 'C' and two trees were identified as retention category 'U'. There were no retention category 'A' trees identified. Please refer above for retention category and definition criteria
29. It has been recommended that tree T10 is monitored annually to assess if its condition is still acceptable as a significant water pocket was noted at its stem union.
30. Light pruning works have been recommended to fifteen trees on this site, for reasons of public safety and to ensure the long-term health of the trees.
31. Those trees which overhang the public footpaths or public highways, shall require future maintenance to maintain clearance heights for vehicular or pedestrian traffic. These heights should be 5.6m above a road and 2.5m above a footpath.

DR-5429-01 Tree Constraints Plan

Please note:
The plan is for guidance only
and should not be scaled from.

The original of this drawing was produced
in colour - a monochrome copy should not be
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DR-5429-01 - TREE CONSTRAINTS PLAN

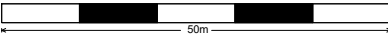
Site: Plot L Kingsway Park

Paper Size: A1 Scale: 1:500

BS 5837: 2012 Retention Categories

	CATEGORY A
	CATEGORY B
	CATEGORY C
	CATEGORY U

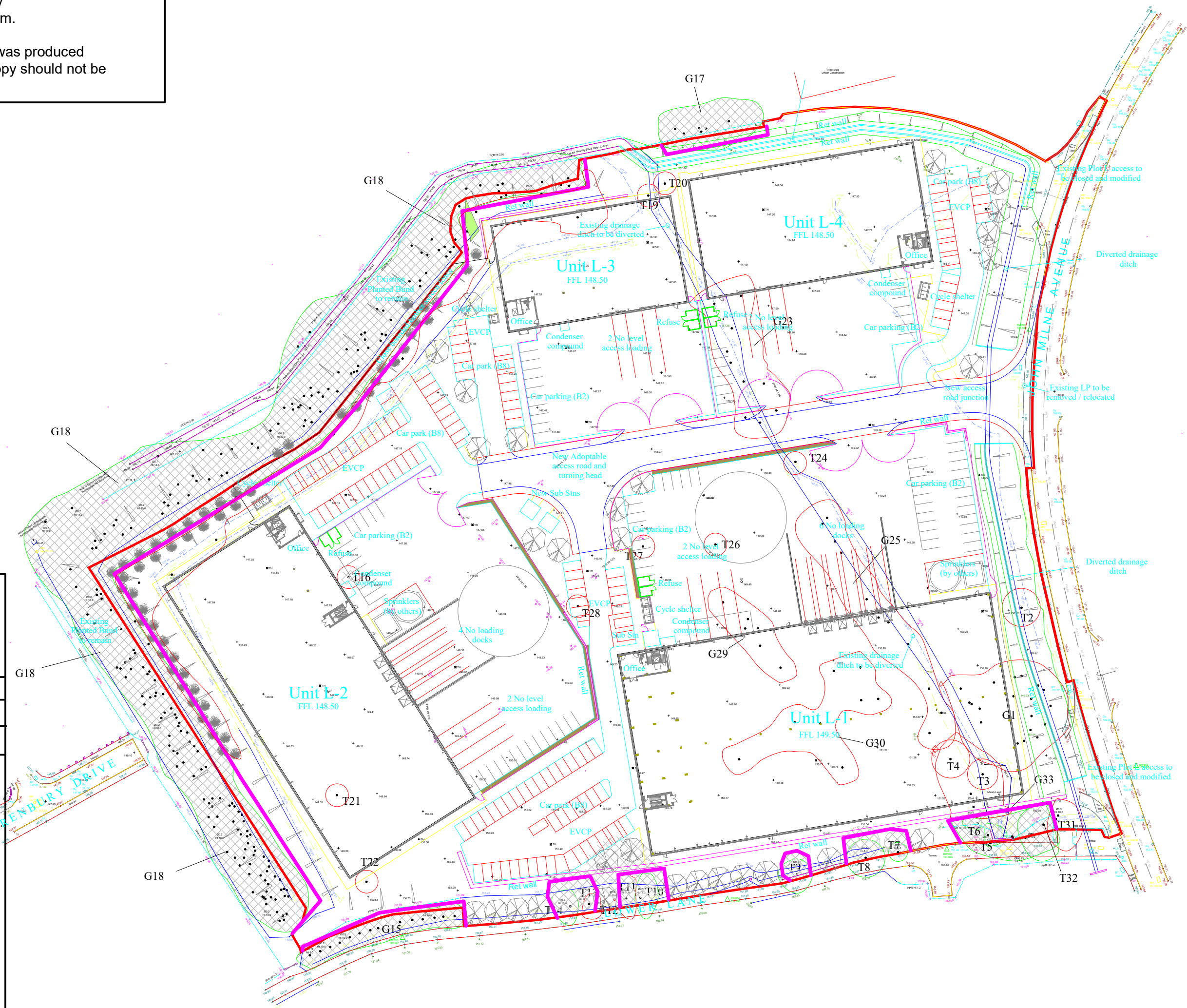
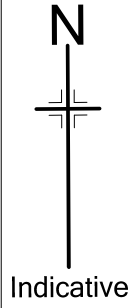
	ROOT PROTECTION AREA
	TREE STEM



DR-5429-02.02 Tree Protection Plan

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DR-5429-02.01 - TREE PROTECTION PLAN

Site: Plot L Kingsway Park

Paper Size: A1 Scale: 1:500

	Tree to be retained
	Tree to be removed
	Protective fencing in line with BS 5837:2012

	ROOT PROTECTION AREA
	TREE STEM