



SJ Stephens Associates

ARBORICULTURAL, LANDSCAPE &
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Arboricultural Impact Assessment

- Tree Survey
- Tree Protection Plan
- Method Statement

At:-

Uxbridge Road DNS (ref:805979)
DNS opposite Collieridge Way
Uxbridge Road
Hays
London
UB4 0RY

On behalf of:-

Beacon Comms
Unit E3
Pitts Cleave Industrial Estate
Tavistock
Devon
PL19 0PY

Prepared by:

Simon Stephens MA Oxon, Dip
Arb(RFS), MArborA, C Env. MICFor
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Survey Date: 26th November 2019
Report Date: 3rd January 2020
Project no: 1449

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- D Site photos**
- E Proposed Site Plan**

1 BACKGROUND

- 1.1** This Arboricultural Impact Assessment has been instructed by Beacon Comms, to assess the arboricultural impact of the proposed erection of a new monopole antenna and associated cabinets adjacent to Uxbridge Road.
- 1.2** Trees were surveyed, with findings shown in the Tree Schedule in Appendix B and shown plotted on the Tree Protection Plan in Appendix A. This also includes tree protection measures, which are specified in the Arboricultural Method Statement in section 5 below. The arboricultural impact is assessed in section 6, which assumes that these recommendations are followed.
- 1.3** The tree survey was undertaken, and this report has been prepared, by Simon Stephens MA Oxon, Dip Arb (RFS), MArborA, C Env, MICFor a Registered Consultant with the Arboricultural Association, with over 20 years relevant experience.
- 1.4** This survey and report have been prepared in accordance with recommendations provided in BS 5837:2012, Trees in relation to design, demolition and construction - Recommendations.
- 1.5** Documentation supplied:
 - Beacon Coms, General Arrangement Plan: drawing no 805979-HGN041-70561-UB0111-M001 Issue A

2 SURVEY DETAILS AND SCOPE

- 2.1 The site survey included trees and shrubs, within influencing distance of the proposed development, with a stem diameter over 75mm at 1.5m height, located within the area shown on the Tree Protection Plan, included as Appendix A.
- 2.2 Tree inspection took place from ground level with the use of binoculars, sounding hammer and metal probe using the Visual Tree Assessment method (Mattheck & Breloer 1994). The presence and condition of bark and stem wounds, cavities, decay, fungal fruiting bodies and any structural defects that could increase the risk of structural failure were noted.
- 2.3 Tree details have been added to the plan received, which is included as Appendix A. Tree locations have been taken from the topographical survey provided. Where not included on the topographical survey, they have been determined by measuring distances from features shown on the plan, using a laser measuring device. The following information was recorded for each tree, and is shown in the Tree Schedule included as Appendix B:
- **Number:** an identity number for each tree, prefixed with a "T", which cross references locations shown on the plan with the schedule in Appendix B. Where a number of trees, normally of the same species, are located close together and are similar in character and requirements, they have been treated as a Group under a single Number, prefixed with a "G".
 - **Species:** common name.
 - **Tree height:** approximate height in metres.
 - **Stem diameter:** diameter in millimetres, taken at 1.5m above ground. Where there are a number of stems, stem diameters are recorded in the condition column.
 - **Branch spread:** approximate spread in metres to N,S,E and W of the trunk. The approximate branch spread is drawn on the plan.
 - **Canopy clearance:** approximate height of the canopy above ground. Where a significant, low lateral branch is present, its height and direction of growth is included in the Condition column.
 - **Age class:** Young, Semi-mature, Early mature, Mature, Over-mature, Veteran.
 - **Condition:** features that affect the safe useful life expectancy and amenity of the tree, including the presence of decay or any physical defect.
 - **Management Recommendations:** recommendations to ensure the health and safety of the tree, within the future development.
 - **Estimated Remaining Contribution:** <10 years, 5-15 years, 10-20 years, 15-30 years, 20-40 years, >40 years.
 - **Category grading:** tree classification taken from BS 5837:2012, Trees in relation to design, demolition and construction (see Appendix C for details), as follows:
 - Category U: Unsuitable for retention, trees with less than 10 years life expectancy, normally recommended for removal (Red)
 - Category A: high quality trees, able to make a substantial contribution for at least 40 years, normally retained unless there is an over-riding reason for removal and appropriate mitigation. (Green)

- Category B: moderate quality trees, able to make a significant contribution for at least 20 years, normally retained. (Blue)
- Category B/C: an intermediate category between categories B and C (not specifically described in BS5837). Trees, which should be retained wherever possible, providing retention does not unreasonably constrain the layout. (Blue)
- Category C: low quality, in adequate condition to remain for at least 10 years, or young trees <150mm stem diameter. Trees which can be removed to allow the desired layout or new planting. (Grey)

For category A, B and C trees, a subcategory has been allocated, providing information on the reasons for selection of a specific category, as follows:

- Subcategory 1: mainly arboricultural values.
 - Subcategory 2: mainly landscape values.
 - Subcategory 3: mainly cultural values, including conservation.
- Trees have been classified irrespective of the possible proximity to future construction. The BS 5837 category is colour coded, as indicated above, on the plan included as Appendix A.
 - **Protection Distance:** the protection distance in metres required to provide the Root Protection Area recommended in BS 5837, assuming a circular area centred on the tree.
 - **Root Protection Area (RPA):** the area in m², as recommended in BS 5837, to provide sufficient rooting area to ensure tree survival and which, in most situations, should be fenced off to prevent root damage from construction activities.

3 SURVEY LIMITATIONS

- 3.1 No internal decay devices, or other invasive tools to assess tree condition, were used.
- 3.2 No soil excavation or root inspection was carried out.
- 3.3 This survey has not considered the effect that trees or vegetation may have on the structural integrity of future building through subsidence or heave.
- 3.4 The tree survey has been undertaken for planning purposes. Although any obvious structural defects have been noted, a Tree Hazard Assessment has not been carried out. Mature trees close to highly populated areas or public highways should normally be checked for safety annually, by a suitably qualified person.

4 LEGAL PROTECTION OF TREES

- 4.1.1 The London Borough of Hillingdon website was viewed on 03-01-2020, showing that the site does not contain any Tree Preservation Orders, nor does it fall within a Conservation Area. The presence of Planning Conditions currently attached to the site, was not checked.

5 ARBORICULTURAL METHOD STATEMENT

5.1 Site Overview

- 5.1.1 The proposal is for the erection of a new monopole antenna and associated cabinets adjacent to Uxbridge Road opposite Coleridge Way. The proposed site plan is included as Appendix F and is also shown, along with tree details, on the Tree Protection Plan attached as Appendix A.
- 5.1.2 There are three trees in the site adjacent to the proposed location. These are all high quality mature trees, however the proposed location of monopole and cabinets are well away from the canopies and Root Protection Areas. These trees are shown in the photos included in Appendix D.

5.2 Tree Work

- 5.2.1 No tree works are proposed.

5.3 Root Protection Areas

- 5.3.1 Root Protection Areas are shown for all trees in the tree schedule attached as Appendix B. They are also shown for all retained trees, as circular areas centred on the trunk, on the Tree Protection Plan attached as Appendix A. This shows the distance from a tree in which all construction activity must normally be excluded, to provide the Root Protection Area as per BS 5837, unless appropriate protection measures are implemented.

5.4 Tree Protection Fencing

- 5.4.1 As can be seen in the photos included as Appendix D, there is heavy duty steel palisade fencing separating the construction area from the adjacent site where the trees are growing. No Tree Protection Fencing is therefore required.

5.5 General measures

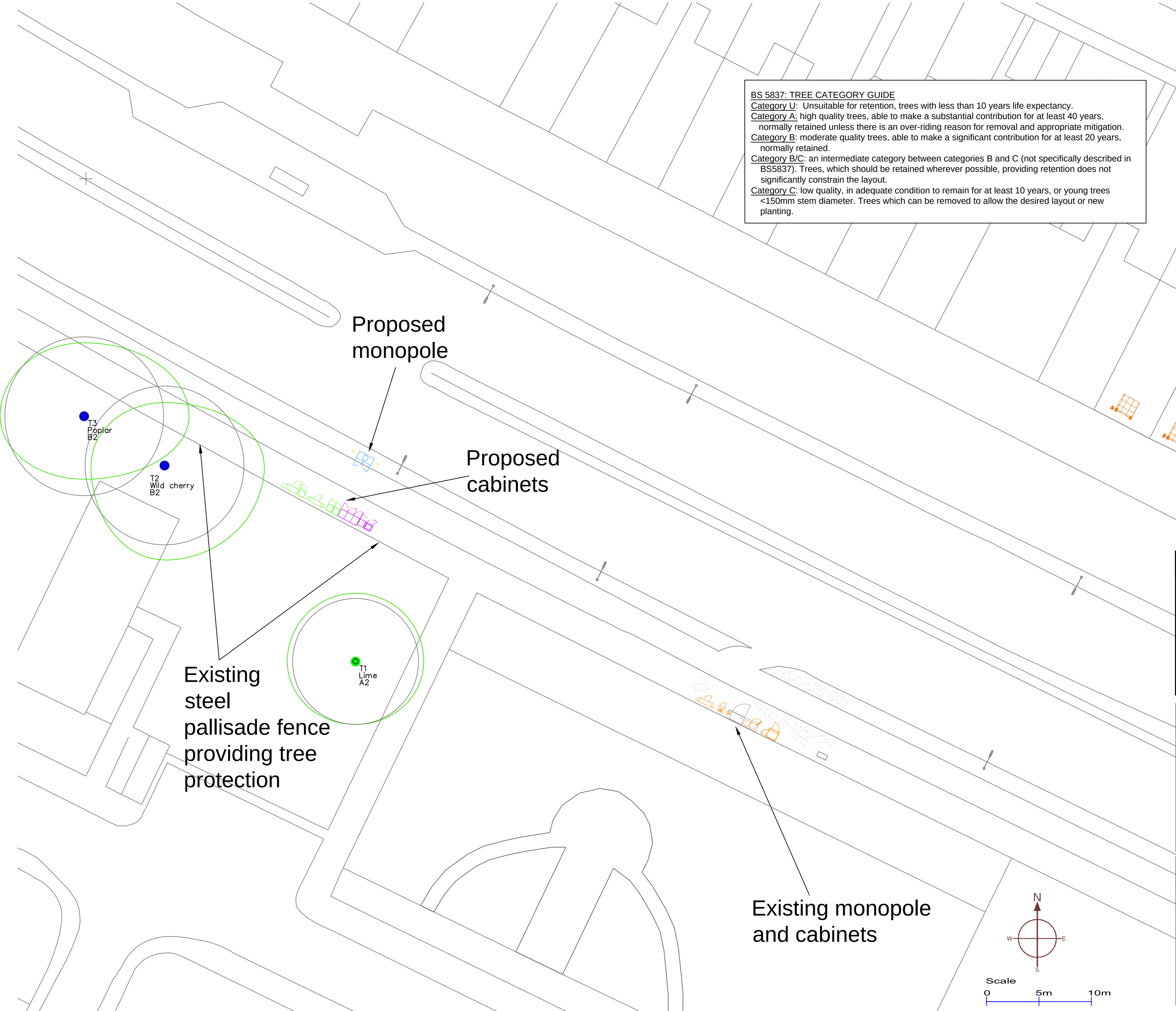
- 5.5.1 No construction activity whatsoever, including routing of underground services, storage of materials or on-site parking, must be allowed within Root Protection Areas, other than that specifically described above.
- 5.5.2 No mixing or storage of cement, concrete, oil, fuel, bitumen or other chemicals must be permitted within 10m of the trunk of any retained trees, nor in any position where the slope of the ground could lead to contamination of the Root Protection Area.
- 5.5.3 Fires must not be lit in a position where their flames could extend to within 10m of foliage, branches or trunk.
- 5.5.4 Landscape works carried out within Root Protection Areas must be undertaken with great care so as not to damage shallow roots. Tractor mounted rotovators or other heavy mechanical cultivation must not be used within the Root Protection Areas.
- 5.5.5 A copy of this report and the Tree Protection Plan must be kept on site and must be fully understood by the Site Agent.

6 ARBORICULTURAL IMPACT ASSESSMENT

- 6.1 No tree work is proposed.
- 6.2 The proposed location of monopole and cabinets are well away from the canopies and Root Protection Areas of all adjacent trees so there is most unlikely to be any impact on adjacent trees.

7 REFERENCES

- *BS5837:2012 Trees in relation to design, demolition and construction – Recommendations.*
- *NJUG 10: Guidelines for the planning, installation and maintenance of Utility Services in proximity to trees. (Published by the National Joint Utilities Group) Issue 2:16th November 2007.*
- *Mattheck & Breloer (1994). HMSO London. Research for Amenity Trees No4: The Body Language of Trees.*



BS 5837: TREE CATEGORY GUIDE
Category U: Unsuitable for retention, trees with less than 10 years life expectancy.
Category A: high quality trees, able to make a substantial contribution for at least 40 years, normally retained unless there is an over-riding reason for removal and appropriate mitigation.
Category B: moderate quality trees, able to make a significant contribution for at least 20 years, normally retained.
Category B/C: an intermediate category between categories B and C (not specifically described in BS5837). Trees, which should be retained wherever possible, providing retention does not significantly constrain the layout.
Category C: low quality, in adequate condition to remain for at least 10 years, or young trees <150mm stem diameter. Trees which can be removed to allow the desired layout or new planting.

APPENDIX A

Key

- Category U
- Category A
- Category B
- Category C
- Crown spread: retained trees
- Trees For Removal
- Root Protection Area

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JOB TITLE
UXBRIDGE ROAD DNS

DRAWING TITLE
TREE PROTECTION PLAN

DRAWING NUMBER
1449-01

REVISIONS

SCALE
1:250 at A2

DATE
JAN 20

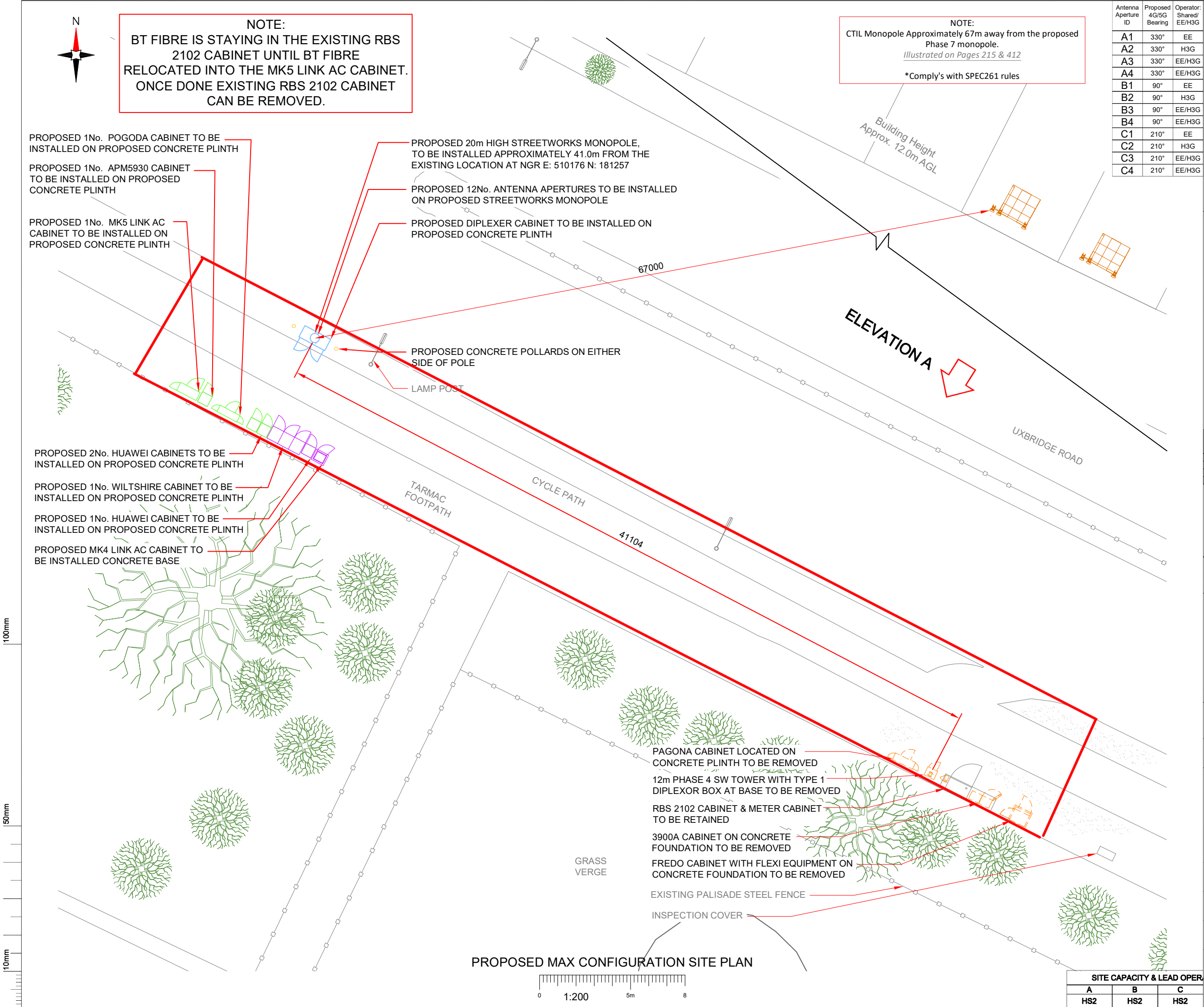
DRAWN BY
sjss

Tree/ Group No.	Species	Height (m)	Stem Diam. at 1.5m (mm)	Branch Spread (m)				Canopy Clearance (m)	Age Class	Observations	Management Recommendations	Estimated Remaining Contribution (years)	BS 5837 Category Grading	Protection Distance (m)	Root Protect. Area (m ²)
				N	S	E	W								
T1	Lime	12.5	est 500	6.5	6	6.5	6.5	1.7	Early mature	Growing in adjacent site- access not possible, so base not inspected. Leaning to north, but an attractive tree.		>40	A2	6.0	113
T2	Wild cherry	14	est 630	6	9	9.5	7	1.7	Mature	Growing in adjacent site- access not possible, so base not inspected. Attractive tree, however Ganoderma fungal brackets between buttresses.	Undertake tree hazard assessment.	15-30	B2	7.6	179
T3	Poplar	15	est 630	7	6	10	8	1.7	Mature	Growing in adjacent site- access not possible, so base not inspected. Main stem bifurcates at 1.8m. Heavily reduced 2-3 years ago.		20-40	B2	7.6	179

BS 5837:2012, Table 1 Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
Trees unsuitable for retention (see Note)				
Category U Those 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 that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) - Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline - Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality <i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i>			Canopy coloured red
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for retention				
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	Canopy coloured green
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	Canopy coloured blue
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	Canopy coloured grey





Antenna Aperture ID	Proposed 4G/5G Bearing	Operator: Shared/ EE/H3G
A1	330°	EE
A2	330°	H3G
A3	330°	EE/H3G
A4	330°	EE/H3G
B1	90°	EE
B2	90°	H3G
B3	90°	EE/H3G
B4	90°	EE/H3G
C1	210°	EE
C2	210°	H3G
C3	210°	EE/H3G
C4	210°	EE/H3G

NOTES:
1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

Master: M001	MBNL / EE / H3G	Project: T&A	Purpose of Issue: Planning	Issue: A
Date: 12/06/2019	Drawn: N. Suresh	Checked: T. Clifford	Approved: M. Venner	Revision / Upgrade Description: First Issue
ACQ				
 Hutchison 3G UK Limited Star House, 20 Grendel Road Maidenhead, SL6 1EH Tel: 01628 769 000 Fax: 01628 765 001 H3G Base Station Information line: 0845 6043000 Available 8am-8pm Monday to Friday		 Hatfield Business Park Hatfield Hertfordshire AL10 9BW Tel: 01707 315000 Fax: 01707 319001		

MBNL Mobile Broadband Network Limited
Sixth Floor, Thames Tower, Station Road, Reading, RG1 1LX


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Site Name: UXBRIDGE ROAD DNS

Site ID: 805979

Address: OPPOSITE COLLERIDGE WAY
UXBRIDGE ROAD HAYES
LONDON: HILLINGDON
UB4 0RY

Title: 215 MAX CONFIGURATION SITE PLAN

Project: T & A

Purpose of Issue: GENERAL ARRANGEMENT

EE Cell ID: 70561	MBNL Cell ID: HGN041	3UK Cell ID: UB0111
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Master Drawing No: 805979_HGN041_70561_UB0111_M001	Issue: A
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SITE CAPACITY & LEAD OPER		
A	B	C
HS2	HS2	HS2