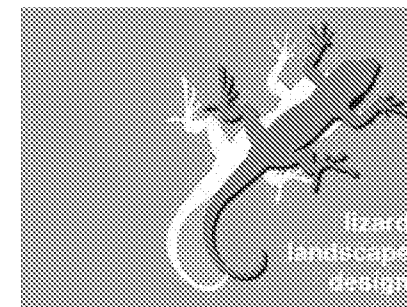




CRAYFERN HOMES

**LAND NORTH OF YAPTON ROAD
BARNHAM, WEST SUSSEX**

TREE RETENTION AND PROTECTION PLAN Existing Tree Schedule

Approved By: Joe Jackson

Signed:

Position: Principal

Date: 23rd June 2015

Rev: 03

June 2015 – Planning Issue

LLD833/KM/23.06.15

LLD833 – LAND TO THE NORTH OF YAPTON ROAD, BARNHAM, WEST SUSSEX
 EXISTING TREE SCHEDULE AND ARBORICULTURAL ASSESSMENT – Revision 03 Dated 23.06.15 – Planning Issue

Ref. no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
TG 01	Mixed Species Tree Group / Understory Scrub; Malus sp. (<i>Apple</i>); Crataegus monogyna (<i>Common Hawthorn</i>); Acer pseudoplatanus (<i>Sycamore</i>); Rubus fruticosus (<i>Bramble</i>); Fraxinus excelsior (<i>Common Ash</i>)	N/A	To 8.0 m Height Approx.	As Shown	Mature +10 yrs	Mixed Species Tree Group of varying size and condition, forming an understory for the larger, adjacent specimens. The trees and scrub vegetation provide seasonal screening to the residential property located to the north western corner of the proposed development site. There is dead wood to many of the trees which form the understory. Scrub vegetation of poor condition proposed to be removed and replanted with better quality native mixed species stock to boundary.	C 1 2	Remove
T 02	Aesculus hippocastanum (<i>Horse Chestnut</i>) (3.6m Radius of nominal circle; 41m² RPA)	302 mm	12.0 m Clear Stem Height 3.0 m	N 5.0 m E 3.0 m S 1.0 m W 2.0 m	Mature <10 yrs	A semi-mature Horse Chestnut tree becoming mature as part of small stand with a dead, self seeded specimen to the base. The tree canopy is in poor health. The tree is leaning to the north due to the close proximity of adjacent trees. There is evidence of tree work to the lower 6.0m of the tree. Exposure of heartwood to base and significant deadwood evident throughout crown. The tree is not viable beyond the short term and is proposed to be removed due to condition.	U	Remove

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Ref. no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
	Acer pseudoplatanus (Sycamore) (4.8m Radius of nominal circle; 72m² RPA)	382 mm	13.0 m Clear Stem Height 2.0 m	N 6.0 m E 5.0 m S 5.0 m W 2.0 m	Mature +10 yrs	A Sycamore tree located to the north western boundary corner. The tree has gently ascending branches with an open canopy concentrated to the upper 4.0m of the tree. The tree is inclined to the eastern aspect (potential heave) and bole is partially decayed at ground level. Prominent tear through loss of bough to secondary leader to western aspect and evidence of early retrenchment. <i>The tree is of low retention value beyond short term and removal could be considered.</i> Tree proposed to be removed within the development proposals. Replacement planting proposed to the development boundary.	C 1 2	Remove
T 04	Fraxinus excelsior (Ash) (4.2m Radius of nominal circle; 55 m² RPA)	328 mm	12.0 m Clear Stem Height 4.0 m	N 4.0 m E 5.0 m S 5.0 m W 6.0 m	Mature +10 yrs	A mature Ash tree located to the north western boundary corner adjacent to the boundary fenceline. The majority of the tree canopy is to the south west with minimal growth to the north due to the close proximity of the surrounding trees. The tree has gently ascending upper branches with lateral lower branches, particularly to the south west. The tree has a clear stem to approx. 6.0m with evidence of tree work and minor deadwood evident within the canopy. Tree proposed to be removed within the development proposals. Replacement planting proposed to the development boundary.	C 1 2	Remove

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T 05	Fraxinus excelsior (Ash) (6.0m Radius of nominal circle; 113 m² RPA)	477 mm	12.0 m Clear Stem Height 2.0 m	N 4.0 m E 5.0 m S 5.0 m W 6.0 m	Mature +20 yrs	An Ash tree located to the north western boundary corner. The tree has a single stem which divides at approximately 1.5m with an ascending habit. The tree has minimal canopy to approximately 5.0m, where lateral branches which become gently ascending towards the crown create a domed crown. The canopy is impeded on the northern side by the adjacent tree and there is evidence of tree work to the lower limbs and middle of the canopy. <i>Decay evident to tertiary leader which should ideally be removed.</i> Tree proposed to be removed within the development proposals. Replacement planting proposed to the development boundary.	B 1 2	Remove
T 06	Aesculus hippocastanum (Horse Chestnut) (3.6m Radius of nominal circle; 41m² RPA)	302 mm	12.0 m Clear Stem Height 3.0 m	N 5.0 m E 3.0 m S 1.0 m W 2.0 m	Mature <10 yrs	A semi-mature Horse Chestnut tree becoming mature. The tree is single stemmed to approximately 2.0m, where it then divides. There is minimal canopy to approximately 6.0m before developing with ascending branches and some lateral branches to the south. There is evidence of tree work to the lower 6.0m of the tree, and some deadwood to the southern aspect. Exposure of partially decayed heartwood to base. Primary leader is of poor structural integrity with further open wounding evident. The tree is not viable beyond the short term and is proposed to be removed due to condition.	U	Remove

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T 07	Acer pseudoplatanus (Sycamore) (3.9m Radius of nominal circle; 48m² RPA)	305 mm CSD	8.0 m Clear Stem Height 2.0 m	N 4.0 m E 4.0 m S 3.0 m W 3.0 m	Mature +10 yrs	One of a group of 2 no. self-sown Sycamore trees situated to the western boundary fenceline. The tree is semi-mature becoming mature and rises with twin-stemmed leaders of upright habit included at base but currently stable. The tree is developing a broadly columnar form offering some amenity to the boundary with the adjacent open space. Tree to be removed to accommodate the development vehicular access proposals.	C 1	Remove
T 08	Acer pseudoplatanus (Sycamore) (3.0m Radius of nominal circle; 28m² RPA)	243 mm CSD	7.0 m Clear Stem Height 2.0 m	N 3.0 m E 4.0 m S 4.0 m W 4.0 m	Mature +10 yrs	One of a group of 2 no. self-sown Sycamore trees situated to the western boundary fenceline. The tree is semi-mature becoming mature and rises with twin-stemmed leaders of upright habit. The tree is developing a broadly columnar form offering some amenity to the boundary with the adjacent open space. Tree to be removed to accommodate the development vehicular access proposals.	C 1	Remove
TG 09	Acer pseudoplatanus (Sycamore) (3.9m Radius of nominal circle; 48m² RPA)	218 mm (Max. Average)	To 10.0 m Clear Stem Height 2.0 m	N 6.0 m E 5.0 m S 3.0 m W 4.0 m	Mature +10 yrs	A stand of Sycamore to the western boundary edge adjacent to gated access. Trees are self seeded and of drawn form replicating the adjacent woodland group to the south. The tree group typically comprises semi-mature becoming mature trees of drawn form due to close proximity. <i>Trees could potentially be thinned to allow better development of principle specimens.</i>	C 1 2	Retain

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T 10	Acer pseudoplatanus (Sycamore) (4.8m Radius of nominal circle; 72m² RPA)	389 mm CSD	10.0 m Clear Stem Height 4.0 m	N 4.0 m E 4.0 m S 4.0 m W 4.0 m	Mature +10 yrs	A Sycamore tree located just outside the western boundary edge. The tree has had tree work to the lower trunk and as a result has a clear stem to approximately 4.0m which divides at approximately 2.0m into three stems, two of which are more substantial and dominant than the third. The tree has arching branches with a dome topped canopy which is restricted to the south due to the adjacent trees to woodland.	C 1 2	Retain
T 11	Fraxinus excelsior (Ash) (5.7m Radius of nominal circle; 102m² RPA)	462 mm	14.0 m Clear Stem Height 3.0 m	N 8.0 m E 6.0 m S 5.0 m W 6.0 m	Mature +10 yrs	A mature Ash of broad rounded form situated within woodland to south western edge. Tree rises upon a singular trunk to carry wide spreading upright ascending branches held in the round. Poor canopy development to lower crown with deadwood and retrenchment evident.	C 1 2	Retain
T 12	Acer pseudoplatanus (Sycamore) (3.0m Radius of nominal circle; 28m² RPA)	239 mm	11.0 m Clear Stem Height 3.0 m	N 2.0 m E 2.0 m S 3.0 m W 3.0 m	Mature +10 yrs	A Sycamore tree located to the southern boundary edge becoming mature. The tree rises upon a singular trunk feathered from the base to approx. 7.0m height where new leader has developed following loss of dominant stem. Tree is of slender columnar form prevailing to more open aspects.	C 1 2	Retain

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T 13	Acer pseudoplatanus (Sycamore) (4.8m Radius of nominal circle; 72m² RPA)	398 mm	15.0 m Clear Stem Height Feathered	N 3.0 m E 5.0 m S 5.0 m W 5.0 m	Mature +20 yrs	A mature Sycamore tree located to the southern boundary edge. Tree rises upon a singular trunk to carry feathered gently ascending branches held predominantly to open southern aspects. Tree of columnar form holding only minor deadwood within crown.	C 1 2	Retain
T 14	Acer pseudoplatanus (Sycamore) (7.5m Radius of nominal circle; 177m² RPA)	602 mm CSD	14.0 m Clear Stem Height 4.0 m	N 3.0 m E 5.0 m S 5.0 m W 5.0 m	Mature +20 yrs	A mature Sycamore developed with a substantial multi-boled trunk (five stems), located adjacent to the southern boundary fenceline. The tree rises to carry with arching branches which are restricted to the north due to the close proximity of the surrounding woodland trees. The tree is inclined to the western aspect. The 2 no. dominant trunks have developed in direct contact above the bole and likely to suffer from abrasion wounding. Tree surgery works should be undertaken to allow longer term retention of tree. The crown should be cleared of deadwood. 2 no. stems rising from an included union to the northern bole are of especially poor condition and should be removed.	C 1 2	Retain

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Ref. no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
TL 15	Populus 'Balsam Spire' (Poplar) (i) 13.2 m Radius of nominal circle; 547m² RPA (ii) 7.5m Radius of nominal circle; 177m² RPA (iii) 7.2m Radius of nominal circle; 163m² RPA (iv) 7.2m Radius of nominal circle; 163m² RPA (TPO Tree - TPO/BN/1/00 T5; Arun District Council)	i) 1080cm CSD ii) 620cm iii) 595cm iv) 595cm	18.0 m (Average) Clear Stem Height 7.0 m (Average)	N E S W i) 18 15 2 6 ii) 9 11 8 6 iii) 0 7 11 8 iv) 0 8 12 0	Mature +20 yrs	A treeline of large and mature Poplar trees (4 no.) with northernmost specimen consisting of two trunks co-joined at the base. The trees have substantial trunks with minimal canopy growth to approximately 10.0m. The most northerly tree is leaning considerably to the north. The southern most tree is heavily inclined to the southern aspect. The trees carry extensive open canopies with gently ascending outer branches becoming more lateral and far reaching to the lower canopy forming a massed domed crown. Ivy has been severed from the trees but remains to the tree to the northern aspect. Northern most tree (i) has dropped significant bough with torn remnant stub evident. The treeline crowns should be cleared of deadwood. Northernmost tree (TL15 (i) to be pollarded to crown fork approx. 4.0m above remnant stub).	B 2	Retain
T 16	Alnus glutinosa (Alder) (i) 5.1 m Radius of nominal circle; 81m² RPA (ii) 4.5m Radius of nominal circle; 64m² RPA	i) 408cm ii) 363cm	12.0 m (Average) Clear Stem Height 6.0 m (Average)	N E S W i) 5 7 3 2 ii) 5 6 4 4	Mature +10 yrs	Two mature Alder trees of feathered form but with minimal branch growth to approximately 6.0m. The trees are Ivy clad from the trunk to lower canopy. The trees have a lateral branch habit which becomes gently ascending with canopies suppressed by adjacent overhanging Poplars.	C 1 2	Retain

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T 17	Acer pseudoplatanus (Sycamore) (6.0 m Radius of nominal circle; 113m² RPA) (TPO Tree - TPO/BN/1/00 T6; Arun District Council)	484cm	12.0 m Clear Stem Height 3.0 m	N 5.0 m E 4.0 m S 7.0 m W 5.0 m	Mature +10 yrs	A mature Sycamore tree with wide spreading branches. The tree carries a crown of open structure and horizontal, evenly staggered branches. The tree carries significant deadwood from approximately 4.0m and is largely denuded of growth to lower crown, especially to the northern and southern aspects. The crown should be cleared of deadwood.	C 1 2	Retain
T 18	Pinus nigra (Austrian Pine) (7.8 m Radius of nominal circle; 191m² RPA) (TPO Tree - TPO/BN/1/00 T4; Arun District Council)	637cm	15.0 m Clear Stem Height 5.0 m	N 6.0 m E 4.0 m S 4.0 m W 6.0 m	Mature +20 yrs	Tall slender Austrian Pine tree of columnar form. The tree has significant Ivy infestation to the trunk and lower canopy. A dead limb is carried to the northern aspect. The canopy is restricted to the top 6.0m of the tree with a lateral branch habit partially suppressed to the south due to the close proximity of adjacent trees. The tree has some potential to develop. Remove dead limb to northern aspect. Ground Protection Measures to be implemented in proximity to RPA to achieve construction access. Soakaway pipework is to be routed through the Root Protection Area. A Trenchless Excavation method shall be employed through micro-tunnelling / directional drilling to accommodate the pipe runs.	B 1 2	Retain

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T 19	Acer pseudoplatanus (Sycamore) (8.1 m Radius of nominal circle; 206m² RPA) (TPO Tree - TPO/BN/1/00 T7; Arun District Council)	669cm	12.0 m Clear Stem Height 6.0 m	N 8.0 m E 8.0 m S 6.0 m W 5.0 m	Mature +20 yrs	A mature Sycamore tree with a substantial trunk. The tree has wide spreading horizontal branches which become ascending towards the crown. The tree has minimal lower branch growth to the west and carries dead wood to the lower crown. The crown should be cleared of deadwood. Ground Protection Measures to be implemented in proximity to RPA to achieve construction access. Soakaway pipework is to be routed through the Root Protection Area. A Trenchless Excavation method shall be employed through micro-tunnelling / directional drilling to accommodate the pipe runs.	B 1 2	Retain
T 20	Pinus nigra (Austrian Pine) (7.2 m Radius of nominal circle; 163m² RPA)	589cm	12.0 m Clear Stem Height 8.0 m	N 8.0 m E 8.0 m S 1.0 m W 1.0 m	Mature +10 yrs	A mature Austrian Pine tree located to the northern edge of the woodland. There is dead Ivy from the trunk through to the canopy. The foliage is concentrated to the top 3.0 – 4.0m of the tree with horizontal to descending branches which predominate to the open northern aspect. There is some deadwood to the tree canopy. The crown should be cleared of deadwood. Ground Protection Measures to be implemented in proximity to RPA to achieve construction access.	C 1 2	Retain

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T 21	Pinus sylvestris (Scots Pine) (7.5 m Radius of nominal circle; 177m ² RPA)	621cm	14.0 m Clear Stem Height 9.0 m	N 4.0 m E 5.0 m S 3.0 m W 5.0 m	Mature +10 yrs	A tall, slender Pine tree with a substantial trunk. The tree has evenly spaced, horizontal branches which radiate out from the trunk many of which are broken or dead. The canopy begins from approximately 8.0m above ground level and has a flat form and is concentrated to the south and south east. There is evidence of attempted ring barking to the lower trunk at approx. 1.0m height. Ground Protection Measures to be implemented in proximity to RPA to achieve construction access.	C 1 2	Retain
T 22	Cupressus macrocarpa (Monterey Cypress) (11.4 m Radius of nominal circle; 408m ² RPA)	939cm	18.0 m Clear Stem Height 3.0 m	N 3.0 m E 8.0 m S 8.0 m W 8.0 m	Mature +20 yrs	A large and mature Cypress tree with a substantial trunk. The tree has significant deadwood to the canopy base to approximately 10.0m from ground level and evidence of stripped bark to the trunk bole. The tree canopy is upright with a columnar form and is partially impeded on the northern side by the close proximity of adjacent trees. Damaged / dead wood evident to lower crown. The lower crown should be cleared of deadwood / dead limbs.	B 1 2	Retain

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T 23	Tilia x europaea (Lime) (9.6 m Radius of nominal circle; 290m ² RPA)	796cm	18.0 m Clear Stem Height 2.0 m	N 10.0 m E 10.0 m S 7.0 m W 9.0 m	Mature +20 yrs	A significant, mature Lime tree with gently ascending branches located to the north of T22. The tree canopy is partially suppressed to the south but is far reaching in all other aspects and has a domed crown. The tree carries dead wood within the extended crown. The crown should be cleared of deadwood.	A 1 2	Retain
T 24	Acer platanoides 'Drummondii' (Variegated Norway Maple) (6.0 m Radius of nominal circle; 113m ² RPA)	494cm	11.0 m Clear Stem Height 5.0 m	N 9.0 m E 7.0 m S 1.0 m W 5.0 m	Mature +20 yrs	A variegated Norway Maple tree located to the northern woodland edge. The tree is inclined to the northern aspect due to the close proximity of adjacent trees. The branches are arching and dead wood is evident to the lower crown to southern aspect. The crown should be cleared of deadwood to southern aspect.	B 2	Retain
T 25	Tilia x europaea (Lime) (10.2 m Radius of nominal circle; 327m ² RPA) (TPO Tree - TPO/BN/1/00 T2; Arun District Council)	828cm	18.0 m Clear Stem Height 3.0 m	N 10.0 m E 8.0 m S 8.0 m W 7.0 m	Mature +20 yrs	A mature and substantial Lime tree located to the northern woodland edge. The tree has a clear stem to approximately 6.0m and before dividing into two dominant leaders. Branches to the northern edge of the lower canopy hang above ground level. A concrete slab lies to the base of the trunk to the eastern bole edge. Soakaway pipework is to be routed through the Root Protection Area. A Trenchless Excavation method shall be employed through micro-tunnelling / directional drilling to accommodate the pipe runs.	A 2	Retain

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T 26	Pinus radiata (Monterey Pine) (13.8 m Radius of nominal circle; 598m² RPA)	1146cm	14.0 m Clear Stem Height 3.0 m	N 9.0 m E 8.0 m S 10.0 m W 6.0 m	Mature +20 yrs	A large and mature Monterey Pine tree with a substantial trunk which divides at approximately 2.5m into two large leading boughs which carry to the north and south. The tree has lateral to ascending branches with an asymmetrical habit. Deadwood and remnant stubs are held within the extensive open crown. The crown should be cleared of deadwood and extended stub remnants.	B 1 2	Retain
T 27	Acer pseudoplatanus (Sycamore) (3.9 m Radius of nominal circle; 48m² RPA)	318cm	10.0 m Clear Stem Height 2.0 m	N 5.0 m E 4.0 m S 3.0 m W 3.0 m	Mature +10 yrs	A Sycamore becoming mature situated to the northern woodland edge. The tree is of drawn slender feathered form carrying branches predominantly to the open northern aspect. The canopy is more suppressed to southern aspects by adjacent woodland vegetation. The tree holds evidence of bark stripping (possibly squirrel damage) to branched within the upper crown.	C 1 2	Retain
TL 28	Carpinus betulus (Common Hornbeam) (5.4 m Radius of nominal circle; 92m² RPA)	446cm (Max. Average.)	To 10.0 m Clear Stem Height 1.0 m	N 9.0 m E 11.0 m S 6.0 m W 7.0 m (Max. Average.)	Mature +20 yrs	A Hornbeam hedgerow which has been allowed to develop into a tree line. The trees have gently ascending branches, some of which have become more horizontal and far-reaching towards the base of the canopy particularly to the eastern and western aspects. The trees contain some Ivy growth to the trunks with evidence of historical tree work to some of the lower limbs. Minor deadwood should be removed.	B 2	Retain

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TL 29	Quercus ilex (Holm Oak) (8.4 m Radius of nominal circle; 222m² RPA)	699cm CSD (Max. Average.)	To 12.0 m Clear Stem Height 1.0 m	N 10.0 m E 6.0 m S 10.0 m W 6.0 m (Max. Average.)	Mature +20 yrs	Holm Oak treeline located within the northern woodland boundary and to the south of a large concrete rubble pile within the woodland area. The trees have ascending branches, arched to the canopy particularly on the southern side where some of the branches reach ground level. The trees have some Ivy growth to the trunks and some deadwood to the canopies. Deadwood should be removed from lower crowns.	B 2	Retain
T 30	Betula pubescens (Downy Birch) (6.3 m Radius of nominal circle; 124m² RPA) (TPO Tree - TPO/BN/1/00 T1; Arun District Council)	509cm	14.0 m Clear Stem Height 2.0 m	N 7.0 m E 6.0 m S 3.0 m W 5.0 m	Mature +20 yrs	A mature Birch tree located to the north of the southern woodland parcel. The tree is leaning slightly to the north due to the close proximity of adjacent Poplar trees. The tree carries branches of an even, lateral to ascending branch habit.	B 2	Retain
T 31	Populus tremula (Aspen) (6.3 m Radius of nominal circle; 124m² RPA) (TPO Tree - TPO/BN/1/00 G1; Arun District Council)	522cm CSD	14.0 m Clear Stem Height 2.0 m	N 4.0 m E 2.0 m S 5.0 m W 3.0 m	Mature +20 yrs	A mature Poplar tree with a single stem to approximately 0.5m, where it divides. The lower branches have a strong horizontal habit which becomes ascending and evenly spaced towards the crown, creating a columnar form to the crown.	B 2	Retain
T 32	Populus tremula (Aspen) (7.8 m Radius of nominal circle; 191m² RPA) (TPO Tree - TPO/BN/1/00 G1; Arun District Council)	627cm CSD	14.0 m Clear Stem Height 2.0 m	N 7.0 m E 6.0 m S 3.0 m W 5.0 m	Mature +20 yrs	A mature slender Poplar tree with a single stem to approximately 0.5m, where it then divides. The tree has an ascending habit becoming more arching towards the outer canopy.	B 2	Retain

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T 33	Prunus spinosa (Blackthorn) (5.1 m Radius of nominal circle; 81m ² RPA) (TPO Tree - TPO/BN/1/00 G1; Arun District Council)	417cm CSD	6.0 m Clear Stem Height <1.0 m	N 5.0 m E 5.0 m S 5.0 m W 5.0 m	Mature +10 yrs	A Cherry tree with an irregular spreading habit from approximately 0.5m height. There is deadwood throughout the tree canopy and evidence of historic tree work. The upper canopy is restricted due to the close proximity of adjacent trees.	C 1 2	Retain
TG 34	Cupressus macrocarpa 'Barnham Gold' (5 no.) (Monterey Cypress) (9.9 m Radius of nominal circle; 308m ² RPA) (TPO Tree - TPO/BN/2/00 G1; Arun District Council)	825cm (average)	12.0 m Clear Stem Height <1.0 m	N 6.0 m E 6.0 m S 6.0 m W 6.0 m	Mature +10 yrs	A group of 5 no. mature Cypress trees to the south east of the proposed development site. The trees have a compact, dense canopy with a distinctive lateral branch habit creating a conical form. The trees canopies merge into one another and create a mass of evergreen planting located to the northern edge of the Yapton Road.	C 1 2	Retain
T 35	Salix caprea (Goat Willow) (8.7 m Radius of nominal circle; 238m ² RPA)	721cm CSD	7.0 m Clear Stem Height <1.0 m	N 8.0 m E 4.0 m S 9.0 m W 7.0 m	Mature +10 yrs	A mature Willow tree located to the eastern boundary edge, adjacent to an existing disused out-building. The tree is multi-stemmed with an ascending habit, with suckering to the base. The tree carries minor deadwood to the base and within the canopy.	C 1 2	Retain
T 36	Populus tremula (Aspen) (6.0 m Radius of nominal circle; 113m ² RPA)	494cm	12.0 m Clear Stem Height <1.0 m	N 7.0 m E 4.0 m S 7.0 m W 7.0 m	Mature +10 yrs	A Poplar tree with a tall slender trunk and a clear stem to approximately 4.0m. The tree has lateral branches which become ascending towards the crown and gently arching branches lower down creating an oval shaped canopy. The tree leans to the north and has some deadwood within the canopy.	B 2	Retain

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Ref. no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
T 37	Populus tremula (Alder) (5.1 m Radius of nominal circle; 81m² RPA)	408cm CSD	11.0 m Clear Stem Height 4.0 m	N 7.0 m E 7.0 m S 4.0 m W 7.0 m	Mature +10 yrs	Poplar tree rising with slender, twin stems. The tree leans to the north and there is less canopy growth to the southern side due to the close proximity of the adjacent tree canopy. The tree has an ascending habit with lateral to arching lower limbs.	C 1 2	Retain
T 38	Salix caprea (Goat Willow) (6.6 m Radius of nominal circle; 137m² RPA)	546cm CSD	10.0 m Clear Stem Height <1.0 m	N 5.0 m E 6.0 m S 6.0 m W 6.0 m	Mature +10 yrs	A mature Goat Willow with dominant ascending multi-stems rising with a fan shaped habit to produce a domed crown. There is little canopy growth to the north due to the close proximity of the adjacent tree canopy. There is evidence of past tree work to the lower limbs.	C 1 2	Retain
T 39	Quercus rubra (Red Oak) (8.1 m Radius of nominal circle; 206m² RPA)	669cm	12.0 m Clear Stem Height 2.0 m	N 9.0 m E 9.0 m S 8.0 m W 9.0 m	Mature +40 yrs	An attractive, symmetrical Red Oak tree located to the eastern boundary edge. The tree has substantial lateral to gently ascending branches which radiate evenly from the trunk, creating a domed crown. The tree has had some tree work to the lower limbs.	A 1 2	Retain
T 40	Quercus rubra (Red Oak) (6.0 m Radius of nominal circle; 113m² RPA)	494cm	12.0 m Clear Stem Height 2.0 m	N 4.0 m E 6.0 m S 7.0 m W 6.0 m	Mature +20 yrs	Red Oak tree with an asymmetrical canopy – the majority of which is held to the south due to tree work to the northern side. There is a far-reaching lateral cluster of branches to the south western side. The remaining crown has horizontal and arching lower branches with ascending upper branches, creating an asymmetrical domed crown.	B 1 2	Retain

Ref. no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
T 41	Quercus rubra (Red Oak) (7.8 m Radius of nominal circle; 191m² RPA)	637cm	12.0 m Clear Stem Height <1.0 m	N 8.0 m E 8.0 m S 5.0 m W 6.0 m	Mature +20 yrs	A mature Red Oak tree located to the north eastern corner of the site. The tree has a more symmetrical form with an open canopy and a dense domed crown. The lower branches are horizontal, becoming ascending towards the crown. There is evidence of some tree work to the lower limbs, especially to the northern side.	B 1 2	Retain
T 42	Populus nigra 'Italica' (Lombardy Poplar) (15.0+ m Radius of nominal circle; 707m² RPA) (Tree Root Protection Area (RPA) Radius extends over the recommended 15.0m protection area, as stated within BS5837:2012)	14013cm	17.0 m Clear Stem Height 3.0 m	N 6.0 m E 6.0 m S 5.0 m W 5.0 m	Mature +40 yrs	A substantial, mature specimen located to the north eastern boundary corner adjacent to the boundary. The tree has a very large trunk with lateral limbs which are arching to ascending in habit creating an even dome topped canopy. There is significant Ivy growth and dead Ivy to the trunk and into the canopy.	B 1 2	Retain
SH 43	Mixed Species Shrub / Understory; Pleioblastus sp. (Bamboo sp.); Quercus robur (Common Oak); Rubus fruticosus (Bramble); Crataegus monogyna (Common Hawthorn); Salix sp. (Willow sp.); Sambucas nigra (Common Elder); Urtica Dioica (Nettles); Hedera sp. (Ivy sp.);	N/A	To 8.0 m Clear Stem Height N/A	As shown	N/A	A group of mixed species shrub/understory located to the eastern boundary edge. The shrubs / understorey are generally in good condition providing seasonal screening to the eastern boundary edge and ecological habitat for a variety of local fauna.	C 1	Retain

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Ref. no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
T 44	Quercus robur (Common Oak) (8.7 m Radius of nominal circle; 238m² RPA)	717cm	9.0 m Clear Stem Height 3.0 m	N 5.0 m E 6.0 m S 6.0 m W 5.0 m	Mature +20 yrs	A semi mature multi-stemmed Oak tree located to the northern edge of the northern boundary adjacent to the railway line and within Network Rail property. The tree has a rounded, full, symmetrical canopy, and is in good condition, There is evidence of tree work to the northern and southern side and some Ivy growth to the base.	B 1	Retain
TG 45	Mixed species woodland (Oak, Birch, Beech, Alder, Lime, Horse Chestnut, Holly, Yew, Sycamore, Hazel, Rhododendron; Pleioblastus sp. (Bamboo sp.))					A large area of woodland understory consisting predominantly of self seeded Sycamore and occasional native species. The woodland understory is located to the southern half of the site, and backs onto residential buildings on the southern boundary edge. The understorey contains invasive species such as Laurel, Bamboo and is of limited ecological value. <i>(The woodland should undergo regular periodic management and clearance of significant dead wood from within crowns. Standing dead wood should be considered where achievable).</i> (Non-native invasive species and low value Sycamore should be cleared. Low Value Woodland is to be cleared to accommodate the drainage proposals and to form ecology woodland rides and glades. Extreme care shall be exercised in proximity to existing trees to be retained to accommodate the proposals).	C 1 2	Part Retain / Part Remove

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Ref. no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
TL 46	Carpinus betulus (Hornbeam - Treeline) (i) 6.0 m Radius of nominal circle; 113m ² RPA (ii) 4.5 m Radius of nominal circle; 64m ² RPA (iii) 4.8 m Radius of nominal circle; 72m ² RPA (iv) 6.3 m Radius of nominal circle; 124m ² RPA	i) 478cm ii) 366cm iii) 382cm iv) 510cm	To 10.0 m (average) Clear Stem Height 1.8 m	N 7.0 m E 6.0 m S 5.0 m W 3.0 m (average)	Mature +10 yrs	A small treeline of mature Hornbeam situated to the eastern end of TL29 Holm Oak treeline. The trees rise to carry suppressed but merged canopies due to proximity of planting. The crowns are of relatively poor structural development with drawn multi-stemmed leaders rising above low crown boles. Minor dead wood noted within with evident localised retrenchment to leading stems and branches. Ivy development into mid – crown. <i>The treeline is to be removed to accommodate the development access proposals.</i>	C 1 2	Remove
TL 47	Fagus sylvatica (Beech - Treeline) (i) 6.3 m Radius of nominal circle; 124m ² RPA (ii) 7.5 m Radius of nominal circle; 177m ² RPA (iii) 4.8 m Radius of nominal circle; 72m ² RPA (iv) 5.4 m Radius of nominal circle; 92m ² RPA (v) 5.1 m Radius of nominal circle; 81m ² RPA	i) 525cm ii) 620cm iii) 382cm iv) 430cm v) 414cm	To 10.0 m (average) Clear Stem Height 1.6 m	N 6.0 m E 6.0 m S 7.0 m W 5.0 m	Mature +10 yrs	A small treeline of mature Beech situated to the south of TL46 Hornbeam treeline and of similar form. Retrenchment is evident within crowns to northern aspect with minor dead wood apparent within crown and noted to crown boles. Trees are of low structural quality with co-dominant leaders and primary stems often of included union rising from low held crown boles. Trees are individually suppressed and of drawn form especially to secondary limb development. <i>The treeline is to be removed to accommodate the development access proposals.</i>	C 1 2	Remove

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Ref. no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
SH48	Fallopia japonica <i>(Japanese Knotweed)</i>	N/A	N/A	As shown	N/A	An area of Japanese Knotweed which is located to the northern boundary of the proposed development site and is bisected by the fence line. The shrub area should be removed entirely by an approved and suitably qualified contractor and disposed of safely at a licensed landfill site according to the Environmental Protection Act (Duty of Care) Regulations 1991. Shrub to be removed within the development proposals. <i>Refer to the Environment Agency Document; The Knotweed Code of Practice - Managing Japanese Knotweed on Development Sites.</i>	U	Remove

Ref. no.	Species	Diameter (@1.5 m height)	Height (approx.)	Spread (approx.)	Age Class / Contribution	Condition / Preliminary Management Recommendations	Cat.	Status
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CATEGORY DIVISION - BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'

Trees to be considered for retention

1. Mainly Arboricultural Qualities

2. Mainly Landscape Qualities

3. Mainly cultural values, including conservation

Category A

- Trees whose retention is most desirable to include; trees of high quality having an estimated longevity of over 40 years;

- Trees that are particularly good examples of their species, especially if rare or unusual

- Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features

- Trees of significant historical, commemorative or other value, or good specimens of rare or unusual species

Category B

- Trees where retention is desirable to include; trees of moderate quality having an estimated longevity of over 20 years;

- Trees that might be included in the higher category, but because of significant impaired but remediable condition are downgraded

- Trees present in numbers offering a higher collective categorisation than as individually rated; trees occurring in groups but due to situation, offering little contribution in the context of the wider locality

- Trees having some material conservation or cultural value

Category C

- Trees of low quality having an estimated longevity of over 10 year, or young trees with a stem diameter below 150mm;

- Trees in adequate or impaired condition, or those which can be retained with minimal tree surgery, but not worthy for inclusion in the high or moderate category

- Trees present in numbers without having significant landscape value

- Trees having no material conservation or other cultural value

Trees unsuitable for retention

Category U - Trees not for retention within the context of existing land use;

- Trees that are unviable due to serious, irremediable structural defect; early loss is expected due to collapse;
- Trees that are dead or showing signs of significant, immediate, irreversible decline;
- Trees infected with pathogens of significance to health and subsequent safety, and threat thereof to trees nearby;
- Trees of very low quality suppressing the development of those of greater quality;
- Trees that will become unviable after the removal of other trees for reasons above.

CSD – Combined Stem Diameter;

- Root Protection Areas calculated for multiple stemmed trees based upon a combined stem diameter in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.

- The location and constraints of existing trees and vegetation within the survey site are illustrated within drawing; LLD833 / 01 – Tree Constraints Plan.
- The impact and protection of existing trees due to the development proposals are illustrated within drawing; LLD833 / 02 – Tree Retention and Protection Plan.