Arboricultural Impacts				
Impacts	Nos. of trees			
rees to be removed	12			
Groups / Hedges to be removed (Partial removal of groups)	3 (1)			
rees with proposed incursions into RPAs	6			
Groups / Hedges with proposed incursions into RPAs	2			
rees that will require pruning	5			
Groups / Hedges that will require pruning	0			
rees to be transplanted	0			
Groups / Hedges to be transplanted	0			
No Species Proposed structure	Incursion			

Groups / He	0		
No.	Species	Proposed structure	Incursion
C02	A Group	Plot 01 building	RPA
C05	A Group	Plot 06 building	RPA
C05	A Group	Plot 06 and 07 Parking bays	КГА
G0 5	A Group	Plot 06 waste and bike storage	RPA
G05	A Group	Plot 07 waste and bike storage	RPA
G05	A Group	Plot 07 building	RPA
C05	A Group	Plot 07 decking	RPA
G 05	A Group	Plot 08 bike and bin storage	RPA
G05	A Group	Parking bay plot 08	RPA
G05	A Group	Plot 08 decking	RPA
G05	A Group	Plot 08 hard surface	RPA
106	Common Oak	Plot 01 building	Crown
111	Common Oak	Plot 02 building	Crown
T30	Common Hornbeam	Plot 09 building	Crown
T32	Cornmon Homboarn	Plot 09 building	RPA
T32	Common Hombeam	Plot 09 decking	RPA
T33	Common Oak	Plot 09 building	RPA
133	Common Oak	Plot 09 building	Crown
T34	Common Oak	Parking bays	RPA
T34	Common Oak	Plot 09 building	RPA
T35	Common Gak	Plot 09 building	Crown
143	Common Beech	Parking bays	RIA
161	European Larch	Access road	RPA
T66	European Larch	Access road	RPA

G02 G06			Incursion	
			(m²)	(%)
G05	A Group	55.4	2.9	5.2
	A Group	91.6	3.5	3.8
G 0 5	A Group	91.6	15 9	17 4
G05	A Group	91.6	9.69	10.6
G05	A Group	91.6	9.69	10.6
G05	A Group	91.6	14.4	15.7
G05	A Group	91.6	9.55	10.4
G 0 5	A Group	91.6	9.5	10.4
G05	A Group	91.6	23.9	26.1
G 0 5	A Group	91.6	5.37	5.9
G05	A Group	91.6	1.67	1.8
T32	Common Hornbeam	239.3	2.02	0.8
T 3 2	Common Hornbeam	239.3	0.15	0.1
T 3 3	Common Oak	58.6	0.38	0.6
⊤34	Common Oak	196.2	5.2	2.7
T34	Common Oak	196.2	1	0.5
T43	Common Beech	233.5	6	2.6
T61	European Larch	87.6	8.8	10.0

Tree Work Schedule					
No.	Species	Works	Category		
G01	A Group	Fell all trees in plantation group and remove stumps where required	B2		
G04	A Group	Fell all trees in plantation group and remove stumps where required	B2		
G05	A Group	Partial fell trees and remove stumps northeast of existing track	B2		
G06	A Group	Fell all trees in plantation group and remove stumps where required	B2		
T01	European Larch	Fell tree	U		
T06	Common Oak	Prune: selective branch reduction pruning and crown lifting on east side of crown to achieve a 2 m clearance from building	B2		
T07	Common Oak	Fell tree and grind out stump	C21		
T08	Common Oak	Fell tree and grind out stump	C12		
T10	Scots Pine	Fell tree and grind out stump	B12		
T11	Common Oak	Prune: selective branch reduction pruning and crown lifting on east side of crown to achieve a 2 m clearance from building	B12		
T12	Common Oak	Fell tree and grind out stump	C21		
T22	Common Oak	Fell tree and grind out stump	U		
T23	Common Oak	Fell tree and grind out stump	C12		
T30	Common Hornbeam	Prune: selective branch reduction pruning and crown lifting on east side of crown to achieve a 2 m clearance from building	B12		
T31	Common Oak	Fell tree and grind out stump	C12		
Т33	Common Oak	Prune: selective branch reduction pruning and crown lifting on east side of crown to achieve a 2 m clearance from building	B12		
T35	Common Oak	Prune: selective branch reduction pruning and crown lifting on east side of crown to achieve a 2 m clearance from building	B12		
T36	Common Oak	Fell tree and grind out stump	B12		
T42	Common Oak	Fell tree and grind out stump	B12		
T40	Common Oak	Fell tree and grind out stump	C12		
T41	Common Oak	Fell tree and grind out stump	C12		
		·			

All ree work is o be under aken in accordance wi h Bri ish S andard BS 3998 2010 Tree work - Recommenda ions All arising's are o be removed and he si e is o be le as ound Care is o be aken o he ground around re ained rees o make sure ha i does no become compac ed as a resul o ree surgery opera ions No equipmen or vehicles such as imber lorries, rac ors, excava ors or cranes shall be parked or driven benea h he crowns o any re ained rees, o preven subsequen compac ion and roo dea h

U	A	В	С
2	0	3	7
No. of gro	oups / hed	dges to be	e remo
No. of gro	oups / hed	dges to be	e remo
No. of gro		dges to be	e remo

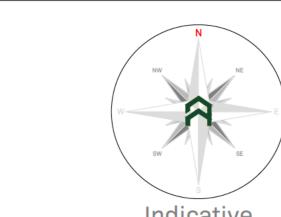
Si e inves iga ions are o be under aken wi hin he R As o re ained rees G02, G05, T32, T33 and T34 o de ermine he size, dep h and loca ion o any roo s ha may be presen or he purpose o in orming ounda ion design

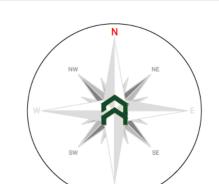
All excava ion wi hin he R As are o be ini ially under aken o a |minimum dep h o 800mm deep or any excava ion or o he ull dep h o he proposed ounda ions, hard sur acing or underground

services The soil is o be loosened with the use of a lork or pick and hen cleared with he aid of an air-spade and air-vac using a specialis arboricul ural con rac or; an air-spade is no used and all excava ions are o be under aken using hand ools (orks, shovel, rowel, brush) Soil will be loosened with the aid of a lork or rowel and the spoil removed rom with he aid of a shovel. Where an air spade or specialis arboricul ural con rac or is no employed, all excava ions are o be under aken under direc arboricul ural supervision All roo s are o be re ained in si u and he projec arboris will visi he si e o recorded and pho ograph he dep h, loca ion, and size o any roo s presen; during his visi he projec arboris may be able o cu speci ic roo s wi h he use o a hand saw or seca eurs The edge o he excava ion closes o he re ained rees and all uncovered roo s will be covered over wi h a minimum o wo layers o damp hessian o preven drying ou , and where necessary be shu ered o preven soil collapse or con amina ion appropria e soil benea h he dep h o 800mm may be shee piled wi h any deeper excava ions being under aken by a machine wi h an appropria e bucke under direc arboricul ural supervision a decision is made or a machine o be used i mus work orm ou side o he R A or have appropria e

Upon he comple ion o he si e inves iga ions all rial excava ions are o be back illed with he original material or inertial may be sui able o inser a roo barrier in loca ions where he proposed roo s are no presen or are beginning o en er o preven roo ac ivi y wi hin areas deemed o be roo ree

ground pro ec ion in place o move and work upon





The use o radi ional s rip ounda ions can resul in excessive roo loss and as such should be avoided Designs or ounda ions ha would minimize he adverse impac upon rees should include par icular a en ion o he exis ing levels, proposed inished levels and cross sec ional de ails Si e speci ic and specialis advice should be sough rom he projec engineers and arboricul uris

Foundations within RPAs

Roo damage can be minimised by using iles wi h si e inves iga ion used o be de ermined heir op imal loca ion whils avoiding damage o roo s impor an or he s abili y o he ree, by means o hand ools or compressed air soil displacemen, o a minimum dep h o Beams, laid a or above ground level, and can ilevered as

necessary o avoid ree roo s iden i ied by si e inves iga ion Where a slab or minor s ruc ures (e g shed base) is o be ormed wi hin he R A, i should bear on he exis ing ground level, and should no exceed an area grea er han 20% o he exis ing unsur aced ground

Slabs or larger s ruc ures (e g dwellings) should be cons ruc ed wi ha ven ila ed air space be ween he underside o he slab and he exis ing soil sur ace (o enable gas exchange and ven ing hrough he soil sur ace n such cases, a specialis irriga ion sys em should be employed (e g roo run-o redirec ed under he slab) The design o he ounda ion should ake in o accoun o he e ec on he load bearing proper ies o he underlying soil rom he redirec ed roo run-o Approval in principle or a ounda ion ha relies on opsoil re en ion and roo run-o under he slab should be sough rom building con rol au hori y prior o his approach being relied upon

Where piling is o be ins alled near o rees, he smalles pracical pile diame er should be used, as his reduces he possibili y o s riking major ree roo s, and reduces he size o he rig required o sink he piles a piling ma is required, his should con orm o he parame ers or ground boarding Use o he smalles pracical piling rig is also impor an where piling wi hin he branch spread is proposed, as his can reduce he need or access acili a ion pruning The pile ype should be selec ed bearing in mind he need o pro ec he soil and adjacen roo s rom he po en ially oxic e ec s o uncured concre e, e g sleeved bored piles or screw

'No Dig' Surfacing

This information is compliant with British Standard BS5837:2012 Trees in relation to design demolition and construction Recommendations, section 7 5 Special engineering for foundations within the RPA

Trees can be a ec by cons ruc ion wi hin he R As ei her hrough he direc damage caused by he removal o roo s, compac ion o he roo ing environmen or secondary damage such as poisoning hrough leaks and spills (oils, uels, e c) or hrough de-icing (road

roposed new hard sur acing wi hin he R As o re ained rees G05, T34, T43, T61 and T66 is o be designed so ha i can be si ua ed above he exis ing soil level and o minimise any adverse impac upon he ree R As, as he use o radi ional ounda ions can resul in excessive roo loss hrough direc removal o roo s during excava ion and by compac ion o he soil benea h he excava ion, as such his 'radi ional' ype o ounda ion should be When designing hard sur acing ha is o be si ua ed wi hin R As, he design eam need o pay par icular a en ion o he proposed usage (pedes rian, domes ic ra ic, delivery vans, mergency vehicles, HGVs e c), he exis ing and proposed levels o hard sur acing and inished loor levels, edging ypes and de ails, proximi y o ree runks and sur ace roo ing, con amina ion

ossible sub-bases (ounda ions sys ems) or hard sur acing si ua ed wi hin he R As o re ained rees could include A proprie ary sys em such as a mul i-dimensional

con inemen sys em (Cellweb TR or similar); ngineered solu ion such as a road deck, bridge, e c An engineered solu ion is likely require a level o excava ion or si e speci ic inves iga ions o loca e roo s o aid in ounda ion

design so ha a sui able ounda ion can be designed o avoid

roo s and or he ins alla ion he s ruc ure NB The use o a mul i-dimensional con inemen sys ems and or an engineered solu ion will a ec ne inisned level o ne nard sur acing by raising he levels and needs o be aken in o considera ion when designing ounda ions and se ing he

Underground u ili y appara us Mechanical renching or he ins alla ion o underground

inished loor levels o adjacen buildings

appara us and drainage severs any roo s presen and can change he local hydrology in a way ha adversely a ec s he heal h o he ree or his reason, par icular care should be aken in he rou and me hods o ins alla ion o all underground appara us Wherever possible, appara us should be rou ed ou side o R As Where his is no possible, i is pre erable o keep appara us oge her in common duc s, all inspec ion chambers should be

si ed ou side o he R As Where underground appara us is o pass wi hin he R As, de ailed plans showing he proposed rou e should be drawn up in conjunc ion wi h he projec arboricul uris n such cases renchless inser ion me hods should be used wi h en ry and re rieval pi s being loca ed ou side o he R As his op ion is no easible and providing roo s can be re ained and pro ec ed excava ions should be under aken using hand held ools (air-spade, orks, shovels) or a combina ion o renchless and manual excava ion (broken rench) Any design and ins alla ion should be under aken in accordance wi h he Na ional Join U ili ies Guidelines (NJUG) Above-ground u ili y appara us

Above-ground appara us(including CCTV cameras and ligh ing) should be si ed o avoid he need or de rimen al ree pruning, as such he curren and u ure crown size o he ree should be Tree branches can be pruned back wi h care o provide space, hough i is no appropria e or repe i ive and signi ican ree work o bean ini ial design solu ion unless his is a sui able

managemen ou come or he ree Any pruning should be

under aken in accordance wi h BS3998 2010

Arboricultural Method Statement All ree work mus be under aken in accordance wi h Bri ish S andards lease re er o Arb ech Consul ing L d Tree Schedule, Arboricul ural Me hod S a emen & Tree ro ec ion lan, or ull de ails o all surveyed rees and how he developmen maybe implemen ed wi hou de rimen o re ained rees



Colney Spring Villa Colney Heath Hertfordshire

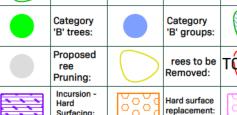
Manor Coliving Limited

Arboricultural Impact Assessment

775CDAZZ00DRA000100 Rev11

Draw ng No:			Rev:	
Arbtech AIA 01			-	-
Date:	Sca e:		Drawn:	
Nov 2024	1:250	@ A0	AOJ	
Key:				
Existing Site Layout:	Proposed Site Layout:		ree Numbers:	T01

xisting ite Layout:	 Proposed Site Layout:	
ree Canopies:	runks:	\bigcirc
Category A' trees:	Category 'B' trees:	
Category	Proposed	



All dimensions should be checked on site No dimensions are to be scaled from this drawing

All dimensions should be checked on site No dimensions are to be scaled from this drawing Please notify us of any discrepancies found Arbtech Consulting Ltd cannot be held responsible for inaccuracies in the base drawing in which this plan is based This drawing is designed to reflect the principles of the layout or design only, and relates only to the protection of retained trees

This drawing is not to be read as a definitive part of the engineering or construction designs or method statement An architect or structural engineer should be contacted over any matters of construction, detailing or specification and for any standards or regulatory requirements relating to proposed structures, hard surfacing or underground services

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