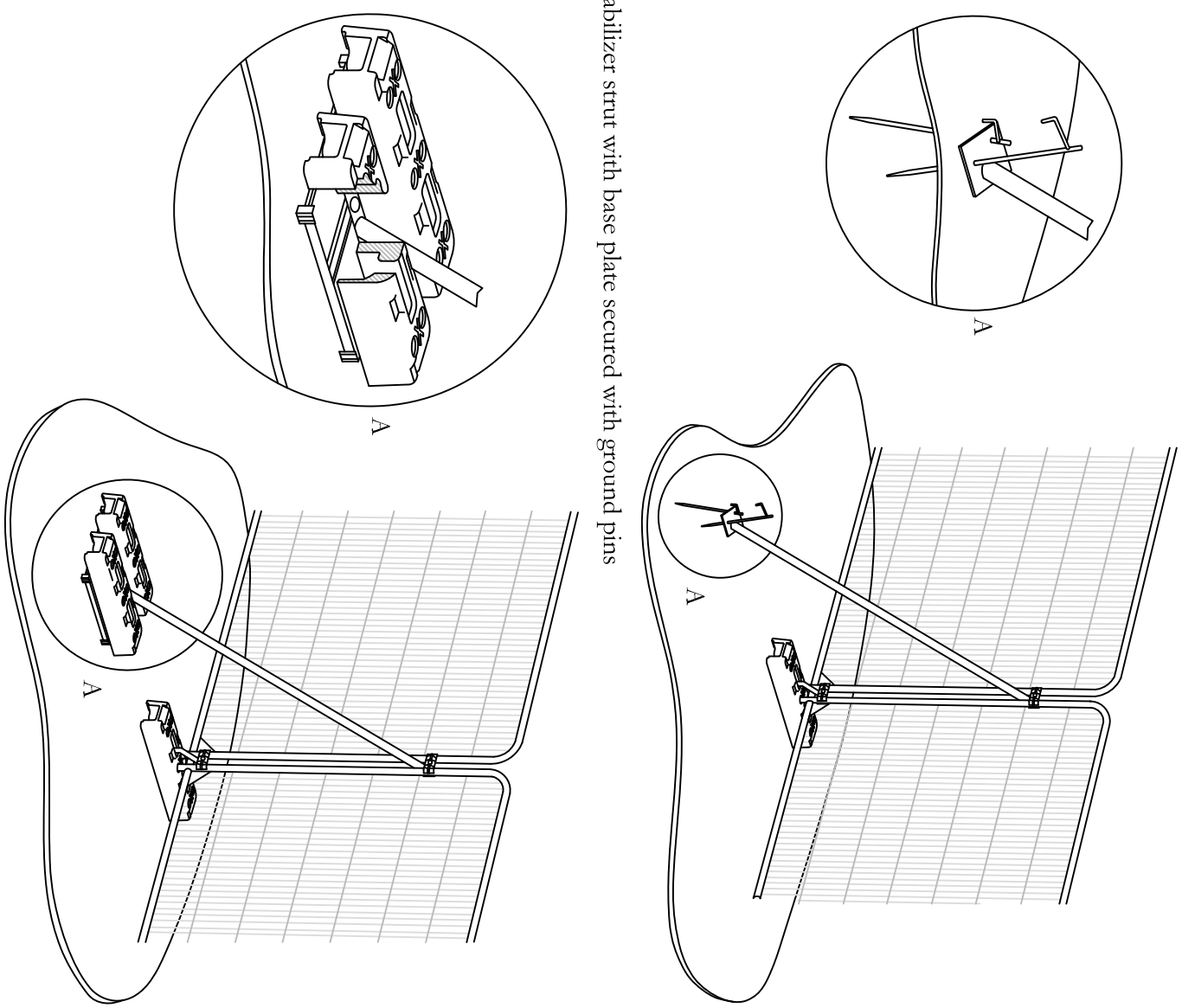


Figure 3 Example of a protective barrier including above-ground stabilizing systems



b) Stabilizer strut mounted on block tray

Reproduced from *BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations*

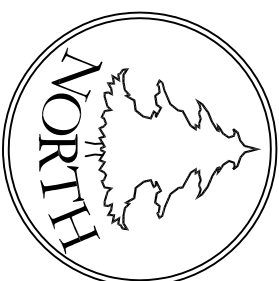
Notes

The original of this drawing was produced in colour - a monochrome copy should not be relied upon.

Site survey based on siteline drawing number 129CH01.

Tree numbers 13, 14 & 15 plotted by eye

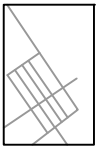
Proposed Site Layout based on The Harris Partnership job-drawing number 11981-100 Rev C



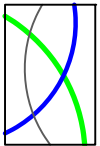
SURVEY OF TREES AT ST GEORGE'S CHURCH, ST GEORGE'S ROAD, READING

Tree No.	Species	Ht (m)	Branch Spread (m)					Single Stem	Stem diameters (cm)					Condition Physiological / Structural	Tree Works to BS 3998	Root protection radius (m)	Root protection area sq.m		
			N E S W						Stem 1	Stem 2	Stem 3	Stem 4	Stem 5						
			(m)																
			2-5 stems																
			More than 5 stems																
Mean dia					Height of crown clearance (m)	Height of first branch (m) and direction (compass point)	Age class	Category grading	Estimated remaining contribution (yrs)										
No. stems																			
Height of crown clearance (m)																			
Height of first branch (m) and direction (compass point)					Age class					Category grading					Estimated remaining contribution (yrs)				
Condition Physiological / Structural					Tree Works to BS 3998					Root protection radius (m)					Root protection area sq.m				
1	Group of Purple Hornbeam	6w	4w	30w				2	2N	E	C2	>10	Several stems infested with <i>Pedicularis fennica</i> and larger trunk with <i>Armillaria</i> at base.		3.60	41			
2	Single stem	5	3	2	1	1	2	2	2N	Y	C1	>10	Stems infested by adjacent trees.	Remove	2.32	20			
3	Single stem	10	3	4	1	3	24	0	2E	Y	C1	>10	Stems infested by adjacent trees. Compromising development of adjacent Larix.	Remove	2.88	26			
4	Lane	12	5	5	5	5							Cluster of stems all of which have extensive bark damage on eastern side to a height of approximately 2 metres.	Remove	5.88	109			
5	Healthy	9	3	3	3	3	20c		2	2N	S	C1	>10	Ivy covered stem.	Remove	2.40	18		
6	Scots Pine	16	4	5	6	4	45c		2	2S	E	A1	>40	Good specimen although trunk densely smothered in ivy preventing thorough inspection. To be expected there is some deadwood within the lower crown that ought to be removed.	Prune to provide 2m clearance from proposed building.	5.40	92		
7	Silver Birch												Dead.	Remove					
8	Scots Pine	15	5	6	5	6	37c	2	2NW	E	B1	>20	Main stem and branch structure smothered in ivy preventing thorough inspection.	Prune to provide 2m clearance from proposed footpath.	4.44	62			
9	Scots Pine	12	5	3	2	7	35c	2	2N	E	C1	>10	Specimen for the neighbour. The main stem and branch structure is densely smothered in ivy preventing a thorough inspection.	Prune to provide 2m clearance over car park.	4.20	55			
10	Group of Scots Pine	14w	7w	40w				2	3NE	E	B2	>20	Cluster of well-set stems forming significant visual group.	Prune to provide 4m clearance over car park.	4.80	72			
11	Scots Pine	14	6	6	6	6	50c	5	5W	E	C1	>10	Appears to be of multi-stemmed form although thorough inspection prevented by dense ivy growth.	Prune to provide 4m clearance over car park.	6.00	113			
12	Group of Lane	10w	4w	30c				2	2E	E	B2	>20	Prominent group of stems although growing immediately adjacent the electricity sub-station and will require pruning to give clearance to the road.	Remove	3.60	41			
13	Scots Pine	10	4	6	5	4	20	2	2NW	S	C1	>10	Young tree established by dead branch.	Remove	3.48	38			
14	Group of Scots Pine	9w	3w	15w				2	2W	Y	C2	>10	Group of well-set stems by frontage boundary.	Remove	1.80	10			
15	Walnut	11	5	7	8	6	45c	2	2SW	E	B1	>20	Broad spreading tree in neighbouring garden.	Remove	5.40	92			

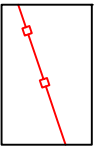
Key:



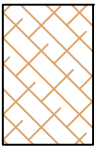
Proposed structures



Trees removed



Actual deployment may be greater.



Root Protection Area (RPA)

Column Heading	Explanation	Key to Schedule of Trees
Common Name	English name corresponding with number on plan	
Species	English name	
HT (m)	Height in metres	
Branch Spread	Crown radius in metres to cardinal points of the compass	
Stem Dia	All measurements continue to 10 m; $\leq$ of BS 583:2012	
	Multi-stemmed tree with 6 to 8 stems - Diameter of each stem	
	Height measured from more than 5 stems - Average stem diameter and number of stems	
Height of crown decimate	Height in metres between the ground and underside of canopy	
Branch and direction of growth	Direction of growth of tree major branches and the appendage: direction of growth	
Aberrations as well as a dimension	Swifts, $\forall$ denotes an estimated dimension	
Age Class	Swifts, $\forall$ denotes an estimated dimension	
	Y = young	
	S = semi-mature	
	E = Early mature	
	O = Over mature	
Category grading and Estimated remaining Contribution (G%)	Summary of BS 5837: 2012 categorisation: 1. Trees unsuitable for retention 2. Trees to be removed for reasons: A1, 2 or 3 = trees of high quality (substantial contribution $\geq 40\%$) A2, 2 or 3 = trees of medium quality (substantial contribution $\geq 20\%$) C1, 2 or 3 = trees of low quality (but adequate, i.e. $\geq 10\%$ yrs or young trees - until new planting can be established) Estimated remaining contribution of the tree or tree group Brief description including phytological and structural defects Works required to be undertaken to the trees to facilitate re-connection of remnant area encountered during the survey Tree Protection: Radius Root Protection Area Total area of minimum root protection are extrapolated from root protection radius	

Typical ground protection detail

Plan of ground protection detail

Section of ground protection detail

1. Existing ground
2. Geotextile membrane
eg Terram 1000 or similar
3. Robust sheets (timber, steel
recycled plastic) overlying
Terram 1000 or similar
4. Where wider than one
sheet stagger joints

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Rev A 21.01.16
Revised layout imported.

jtk

Stonewater Ltd

OBJECT: St George's Church,
St George's Road, Reading

Tree Protection Plan

AWING NUMBER: 8651/02

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For Information

TF:	Dec 2014	SC:
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