

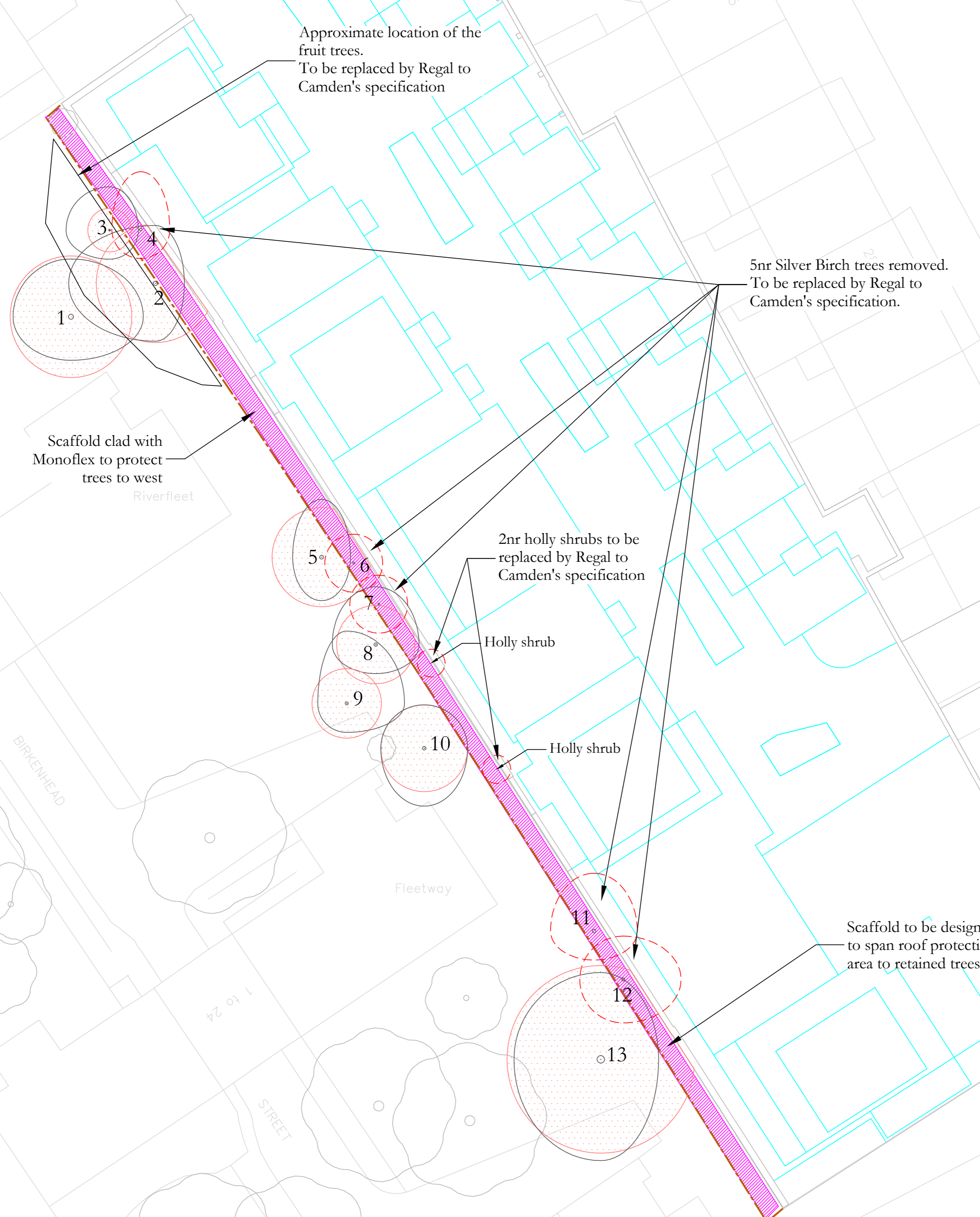
Note:
The original of this drawing was produced in colour - a monochrome copy should not be relied upon.



SURVEY OF TREES AT BIRKENHEAD ESTATE

Tree No.	Species	Ht (m)	Branch Spread (m)			Stem diameters (cm)					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		
			N	E	S	W	Single Stem	2-5 stems												More than 5 stems	
			Stem 1	Stem 2	Stem 3	Stem 4	Stem 5	Mean dia	No. stems												
1	Silver Birch	10	4	5	3	4						4	3E	Y	C1	>10	Triple-stemmed. Growing within grass.		4.13	54	
2	Cockspur thorn	7	4	2	4	6	29					2	2NE	Y	C1	>10	Previously pruned to provide separation from wall.	Prune to provide 1.8m clearance from wall.	3.48	38	
3	Crab apple	5	3	2	2	3						5	6	0			Prune to provide 1.8m clearance from wall.		1.47	7	
4	Silver Birch	10	4	2	2	2	17					7	7N	Y	C1	>10	Etiolated form.	Remove.	2.04	13	
5	Apple	6	4	2	3	2	27					3	3N	Y	C1	>10	Decay at base due to limb loss.	Prune to provide 1.8m clearance from wall.	3.24	33	
6	Silver Birch	9	2	2	2	2	14					1	1S	Y	C1	>10	Etiolated form.	Remove.	1.68	9	
7	Silver Birch	8	2	2	2	2	12					5	5E	Y	C1	>10	Etiolated form.	Remove.	1.44	7	
8	Apple	6	4	3	2	3	23					3	3N	Y	C1	>10	Decay in lower stem.	Prune to provide 1.8m clearance from wall.	2.76	24	
9	Silver Birch	11	5	4	2	2	21					3	3E	Y	C1	>10	Twin-stemmed form from circa 4 metres above ground level.		2.52	20	
10	Plum	9	3	3	4	3	25					3	3W	Y	C1	>10	Decay at base.	Prune to provide 1.8m clearance from wall.	3.00	28	
11	Silver Birch	12	4	3	2	3	24					3	3W	Y	C1	>10	Established tree but growing within 1 metre of wall.	Remove.	2.88	26	
12	Silver Birch	12	3	4	3	3	22					4	4S	Y	C1	>10	Established tree but growing within 1 metre of wall.	Remove.	2.64	22	
13	Elder	10	6	4	7	6		19	22	32	28						Broad spreading multi-stemmed tree. Large for species.	Prune to provide 1.8m clearance from wall.	6.18	120	

Column Heading	Explanation
TPO No	If applicable and where known
Tree No.	Unique number corresponding with number on plan
Species	English names
Ht (m)	Height in metres
Branch Spread	Crown radius in metres to cardinal points of the compass
Stem Dia	All measurements conform to Annex C of BS 5837:2012
Height of crown clearance	Single stem - Stem diameter in centimetres measured at 1.5m above ground level.
Height of first major branch and direction of growth	Multi-stemmed tree with 2 to 5 stems - Diameter of each stem
Abbreviations as suffix to a dimension	Multi-stemmed tree with more than 5 stems - Average stem diameter and number of stems
Age Class	Height in metres between the ground and underside of canopy
Category grading and Estimated remaining Contribution (yrs)	Height from ground level to base of first major branch and the approximate direction of growth
Estimated remaining contribution	Suffix 'v' denotes an estimated dimension
Condition	Suffix 'sv' denotes an average dimension
Tree Works	Age Class definitions:
Root Protection Radius	Y = Young: recently planted or self-sown trees.
Root Protection Area	S = Semi-mature: establishing, usually with good vitality, but of limited stature.
	E = Early mature: established; with good vitality and approaching mature height.
	M = Mature: fully established trees; retaining vitality and achieving mature height.
	C = Crowns still spreading.
	O = Over mature: fully mature trees; declining vitality.
	Summary of BS 5837: 2012 categorisation:
	1. Trees unsuitable for retention:
	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
	2. Trees to be considered for retention:
	A1, 2 or 3 = trees of high quality (substantial contribution >40 yrs)
	B1, 2 or 3 = trees of moderate quality (significant contribution >20 yrs)
	C1, 2 or 3 = trees of low quality (but adequate, ie >10 yrs or young trees - until new planting can be established)
	Useful estimated remaining contribution of the tree or tree group
	Brief description including physiological and structural defects
	Works required to be undertaken to the trees to facilitate the construction of remediate a defect encountered during the survey
	Radius of minimum root protection area in metres calculated from section 4.6 and Annex D
	Total area of minimum root protection area extrapolated from root protection radius



Approximate location of the fruit trees.
To be replaced by Regal to Camden's specification

5nr Silver Birch trees removed.
To be replaced by Regal to Camden's specification.

Scaffold clad with Monoflex to protect trees to west

2nr holly shrubs to be replaced by Regal to Camden's specification

Holly shrub

Holly shrub

Scaffold to be designed to span roof protection area to retained trees

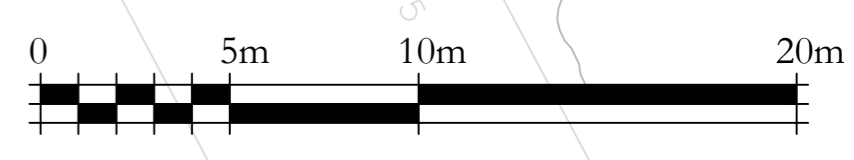
Alder sapling

- Key:
- Existing site features
 - Proposed structures
 - Trees retained
 - Trees removed
 - Scaffold clad with Monoflex
 - 2.1m high close boarded hoarding
 - Root Protection Area (RPA)

Rev C 27.01.15 jtk
Updated to reflect LB of Camden tree officer comments.

Rev B 16.12.14 jtk
Updated to reflect discussion with LB of Camden.

Rev A 03.10.14 jtk
Adjustments to tree works and new tree planting proposed



CLIENT:	Regal Homes
PROJECT:	277a Grays Inn Road, London
TITLE:	Tree Protection Plan
DRAWING NUMBER:	8598/01 Rev C
STATUS:	For Information
DATE:	Oct 2014
SCALE:	1:200 @ A1
DRAWN BY:	ML
CHECKED BY:	JTK
Do not scale from this drawing: All dimensions to be checked on site	
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