NORTH

0 5m 10m 25m 50m

NOTES

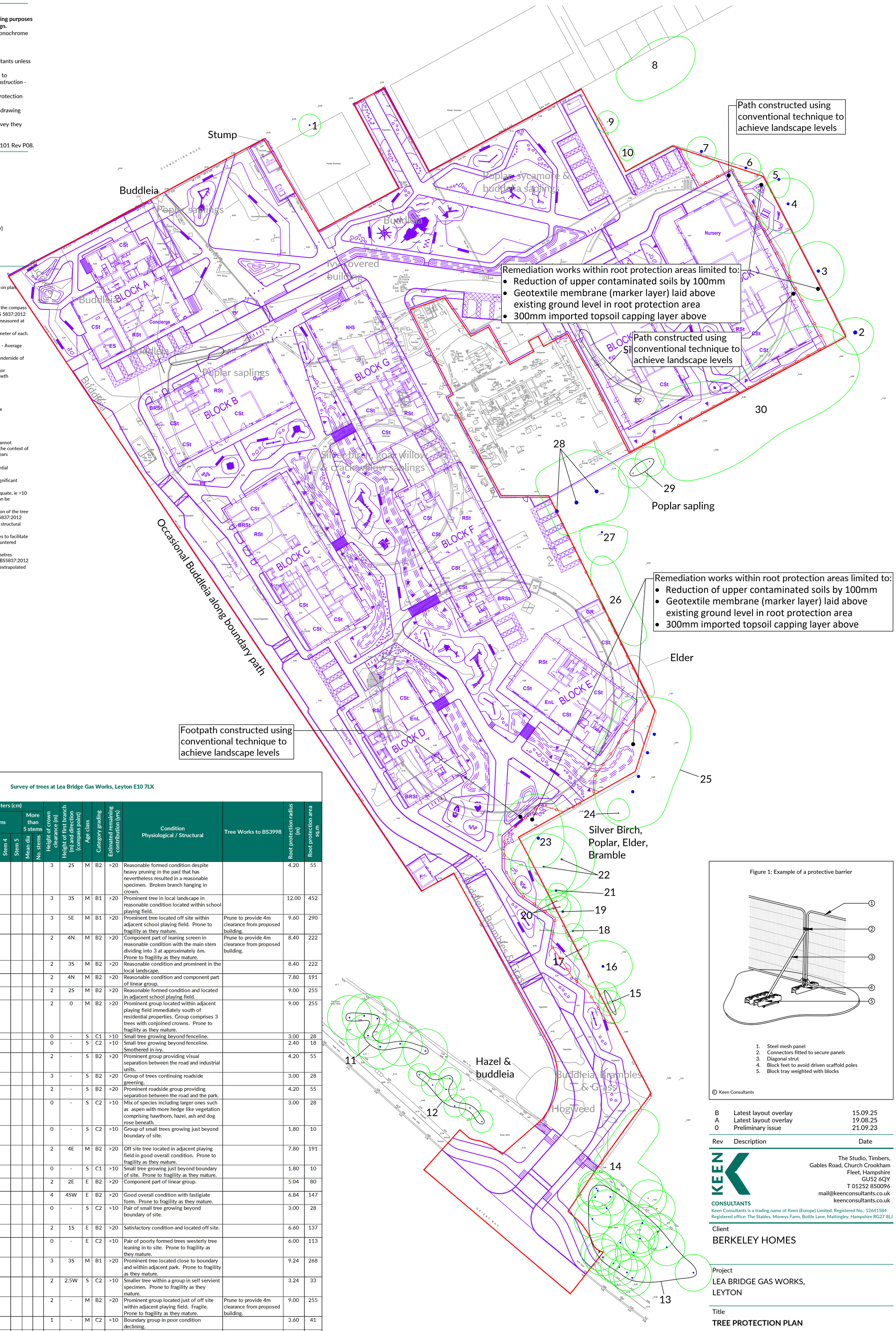
1. **This tree survey information has been prepared for planning purposes only. Additional detail will be needed for foundation design.**
2. The original of this drawing was produced in colour - a monochrome copy should not be relied upon.
3. Scale for planning purposes only.
4. All dimensions to be checked on site.
5. The copyright of this document resides with Keen Consultants unless assigned in writing by the company.
6. Details shown on this drawing are devised with reference to *BS5837:2012:Trees in relation to design, demolition and construction - Recommendations.*
7. Check if Tree Preservation Order or Conservation Area protection applies to trees before undertaking tree works.
8. Topographical survey based on Plowman Craven Limited drawing number 41862T-01-2 B.
9. Where trees were not identified on the topographical survey they have been plotted by eye.
10. Proposed layout based on Gillespies Groundfloor General Arrangement Plan drawing number P21210-00-001-GIL-101 Rev P08.

KEY

- Existing site features
- Proposed layout
- Trees retained (Green-coloured line indicates extent of canopy)
- 2.0m high barrier as detail in Figure 1

KEY TO TREE SCHEDULE

Column Heading	Explanation
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 Single stem - Stem diameter in centimetres measured at 1.5m above ground level. Multi-stemmed tree with 2 to 5 stems - Diameter of each stem Multi-stemmed tree with more than 5 stems - Average stem diameter and number of stems
Height of crown clearance	Height in metres between the ground and underside of canopy
Height of first major branch and direction of growth	Height from ground level to base of first major branch and the approximate direction of growth
Abbreviations as suffix to a dimension	Suffix 'e' denotes an estimated dimension Suffix 'av' denotes an average dimension
Age Class	Age Class definitions: Y = Young S = Semi-mature E = Early mature M = Mature O = Over mature
Category grading and Estimated remaining Contribution (yrs)	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)
Estimated remaining contribution	Note: Useful estimated remaining contribution of the tree or tree group based on figures stated in BS5837:2012
Condition	Brief description including physiological and structural defects
Tree Works	Works required to be undertaken to the trees to facilitate the construction of remediate a defect encountered during the survey
Root Protection Radius	Radius of minimum root protection area in metres calculated from section 4.6 and Annex D of BS5837:2012
Root Protection Area	Total area of minimum root protection area extrapolated from root protection radius



Survey of trees at Lea Bridge Gas Works, Leyton E10 7LX

Tree No.	Species	Ht (m)	Branch Spread (m) N	E	S	W	Stem diameters (cm) Single Stem	2-5 stems Stem 1	Stem 2	Stem 3	Stem 4	Stem 5	More than 5 stems Mean dia	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 BS3998	Root protection radius (m)	Root protection area sq.m
1	Whitebeam	10	3	3	3	3	35								3	2S	M	B2	>20	Reasonable formed condition despite heavy pruning in the past that has nevertheless resulted in a reasonable specimen. Broken branch hanging in crown.		4.20	55
2	Lombardy poplar	20	4	5	6	6	100e								3	3S	M	B1	>20	Prominent tree in local landscape in reasonable condition located within school playing field.		12.00	452
3	Hybrid black poplar	19	8	7	8	8	80e								3	5E	M	B1	>20	Prominent tree located off site within adjacent school playing field. Prone to fragility as they mature.	Prune to provide 4m clearance from proposed building.	9.60	290
4	Hybrid black poplar	19	7	7	8	9	70e								2	4N	M	B2	>20	Component part of leaning screen in reasonable condition with the main stem dividing into 3 at approximately 6m. Prone to fragility as they mature.	Prune to provide 4m clearance from proposed building.	8.40	222
5	Lombardy poplar	19	3	3	5	3	70e								2	3S	M	B2	>20	Reasonable condition and prominent in the local landscape.		8.40	222
6	Lombardy poplar	19	4av				65e								2	4N	M	B2	>20	Reasonable condition and component part of linear group.		7.80	191
7	Lombardy poplar	19	4av				75e								2	2S	M	B2	>20	Reasonable formed condition and located in adjacent school playing field.		9.00	255
8	Hybrid black poplars	18	7av				75e								2	0	M	B2	>20	Prominent group located within adjacent playing field immediately south of residential properties. Group comprises 3 trees with conjoined crowns. Prone to fragility as they mature.		9.00	255
9	Sycamore	11	3	3	3	3	25e								0	-	S	C1	>10	Small tree growing beyond fenceline.		3.00	28
10	Hawthorne	8	2	2	2	2	20e*								0	-	S	C2	>10	Small tree growing beyond fenceline. Smothered in ivy.		2.40	18
11	Group of aspen	14	6av				<35								2	-	S	B2	>20	Prominent group providing visual separation between the road and industrial units.		4.20	55
12	Group of field maples	10av	3av				<25								3	-	S	B2	>20	Group of trees continuing roadside greening.		3.00	28
13	Group of aspen	13av	5av				<35								2	-	S	B2	>20	Prominent roadside group providing separation between the road and the park.		4.20	55
14	Group of mixed broadleaves	<13m	5av				25av								0	-	S	C2	>10	Mix of species including larger ones such as aspen with more hedge like vegetation comprising hawthorn, hazel, ash and dog rose beneath.		3.00	28
15	Group of hybrid black poplar	10av	3av				15av								0	-	S	C2	>10	Group of small trees growing just beyond boundary of site.		1.80	10
16	Hybrid black poplar	19	7	8	6	8	65e								2	4E	M	B2	>20	Off site tree located in adjacent playing field in good overall condition. Prone to fragility as they mature.		7.80	191
17	Hybrid black poplar	13	3	2	3	3	15e								0	-	S	C1	>10	Small tree growing just beyond boundary of site. Prone to fragility as they mature.		1.80	10
18	Lombardy poplar	15	2	3	3	2	42								2	2E	E	B2	>20	Component part of linear group.		5.04	80
19	Hybrid black poplar	17	5	5	6	7	57								4	4SW	E	B2	>20	Good overall condition with fastigiate form. Prone to fragility as they mature.		6.84	147
20	Pair of lombardy poplar	15av	3av				25av								0	-	S	C2	>10	Pair of small tree growing beyond boundary of site.		3.00	28
21	Lombardy poplar	20	2	3	3	2	55e								2	1S	E	B2	>20	Satisfactory condition and located off site.		6.60	137
22	Pair of hybrid black poplars	15av	9av				<50e								0	-	E	C2	>10	Pair of poorly formed trees westerly tree leaning in to site. Prone to fragility as they mature.		6.00	113
23	Hybrid black polar	22	12	7	8	11	77								3	3S	M	B1	>20	Prominent tree located close to boundary and within adjacent park. Prone to fragility as they mature.		9.24	268
24	Hybrid black poplar	13	4	3	2	3	27								2	2.5W	S	C2	>10	Smaller tree within a group in self servient specimen. Prone to fragility as they mature.		3.24	33
25	Group of hybrid black poplar	24av	10av				<75								2	-	M	B2	>20	Prominent group located just of off site within adjacent playing field. Fragile. Prone to fragility as they mature.	Prune to provide 4m clearance from proposed building.	9.00	255
26	Rowan	<8m	4av				<30								1	-	M	C2	>10	Boundary group in poor condition declining.		3.60	41
27	Group of sycamore	14	2	7	9	6	48								2	3S	E	B2	>20	Atropurpureum variety in reasonable condition despite crown asymmetry it still provides back drop screening to the playing field.		5.76	104
28	Hybrid black poplar	22av	7av				75av								2	-	E	B2	>20	Prominent group of 3 trees located off site within playing field. Westerly tree has been cut back. Prone to fragility as they mature.		9.00	255
29	Group of rowans	9av	4av				25ave								2	-	E	C2	>10	Pair of trees reasonable condition providing low level screening.		3.00	28
30	Hybrid black poplars	22av	9av				75av								2	-	M	B2	>20	Prominent group in a satisfactory condition. Prone to fragility as they mature.	Prune to provide 4m clearance from proposed building.	9.00	255

Figure 1: Example of a protective barrier

1. Steel mesh panel
2. Connectors fitted to secure panels
3. Diagonal strut
4. Block feet to avoid driven scaffold poles
5. Block tray weighted with blocks

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Rev	Description	Date
B	Latest layout overlay	15.09.25
A	Latest layout overlay	19.08.25
0	Preliminary issue	21.09.23

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Client
BERKELEY HOMES

Project
LEA BRIDGE GAS WORKS,
LEYTON

Title
TREE PROTECTION PLAN

Date	Scale
SEPT 2023	1:500@A1
Drawn by	Checked by
ML	JTK

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