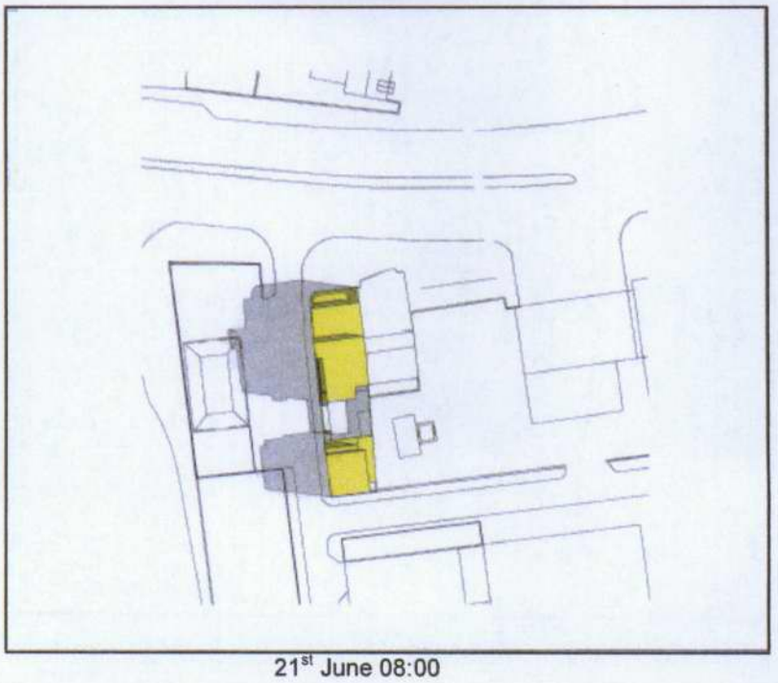
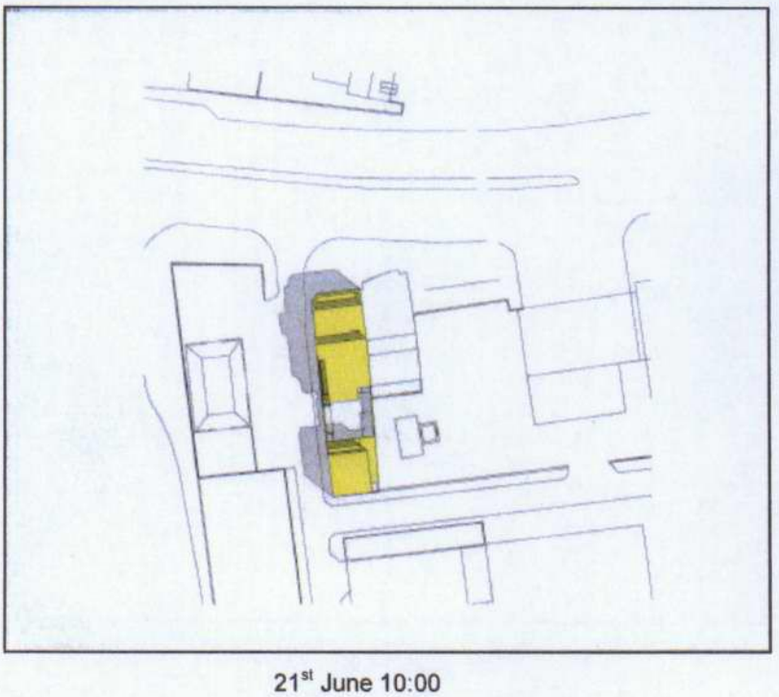
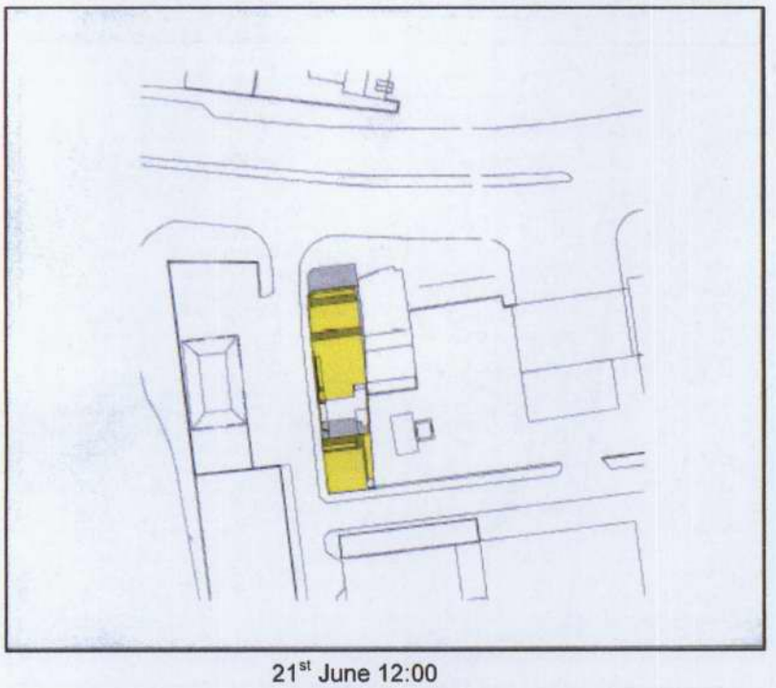
Shadow Path Analysis



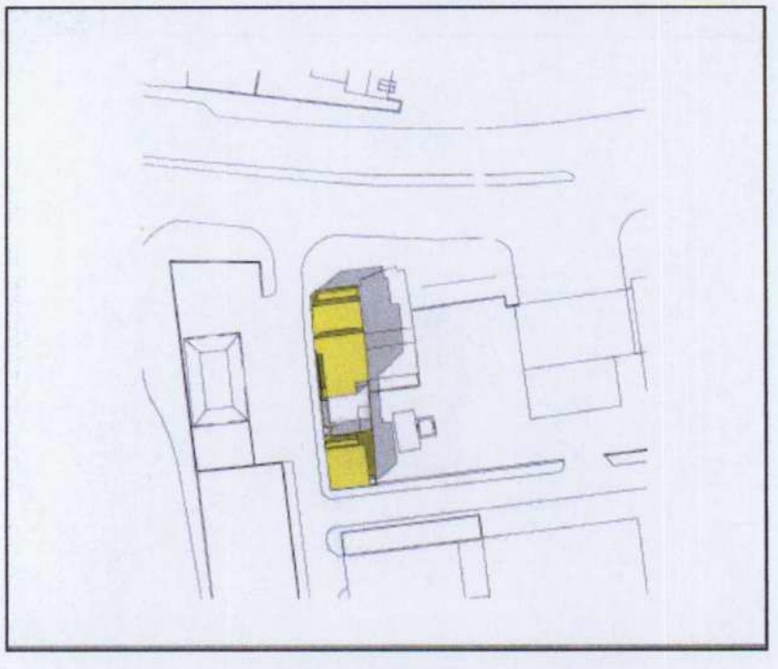
21st June 08:00



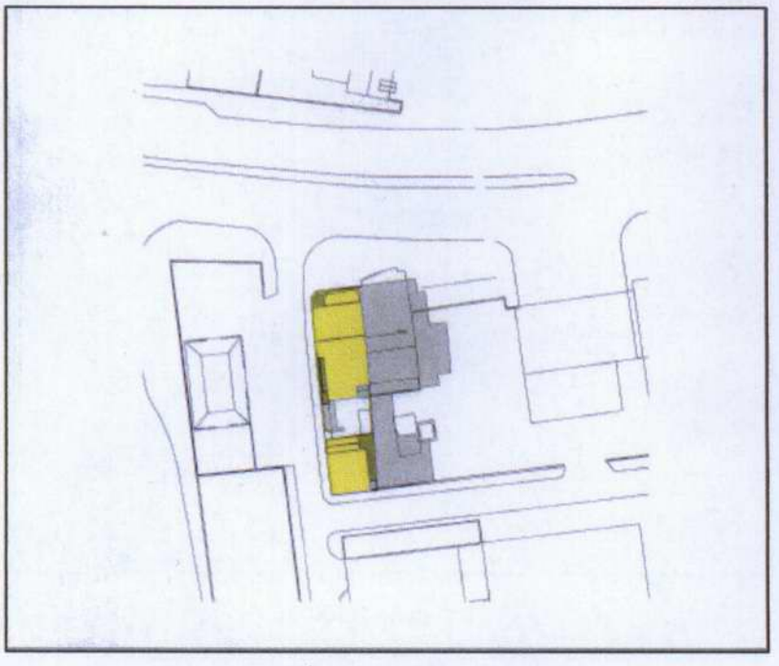
21st June 10:00



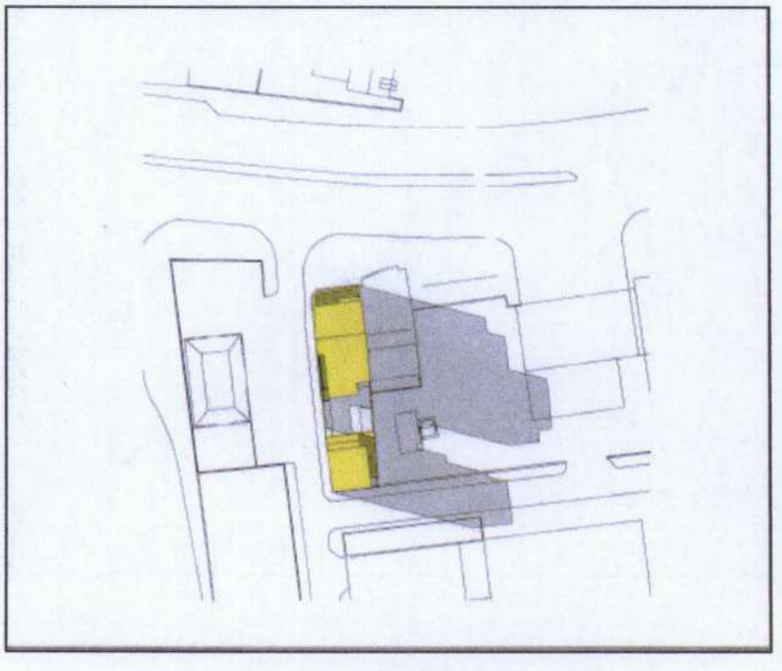
21st June 12:00



21st June 14:00



21st June 16:00



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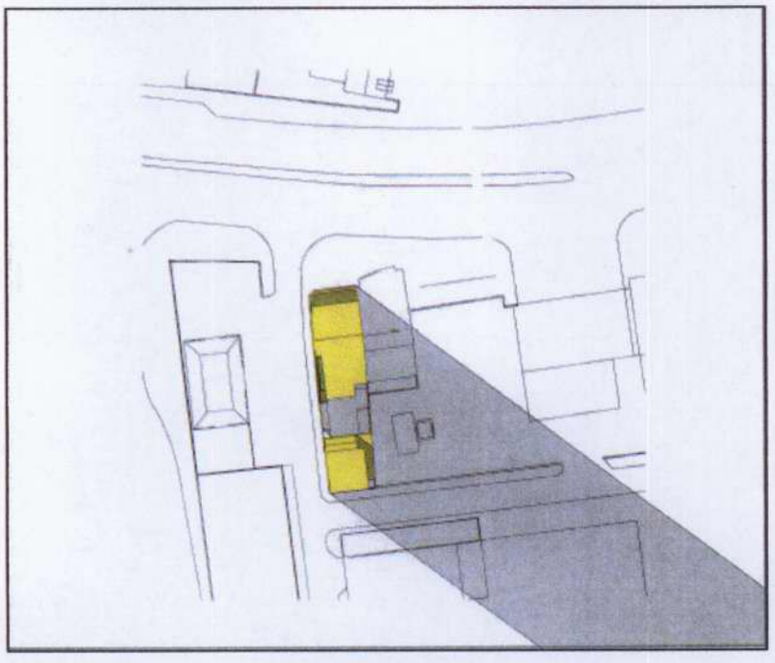
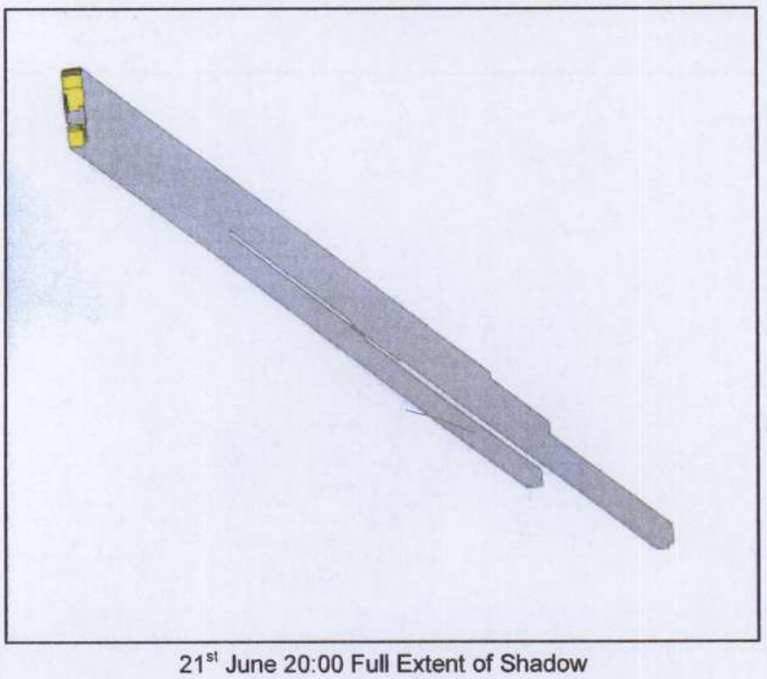
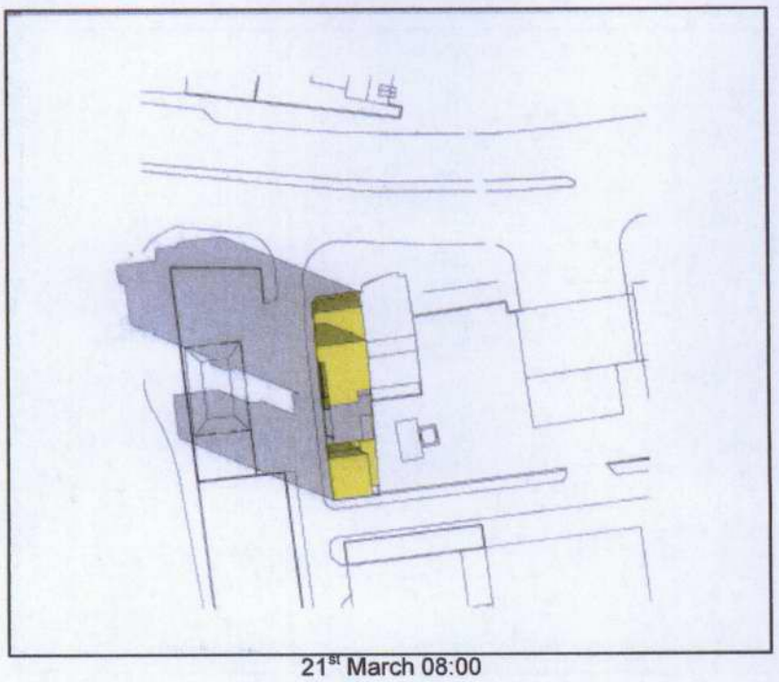


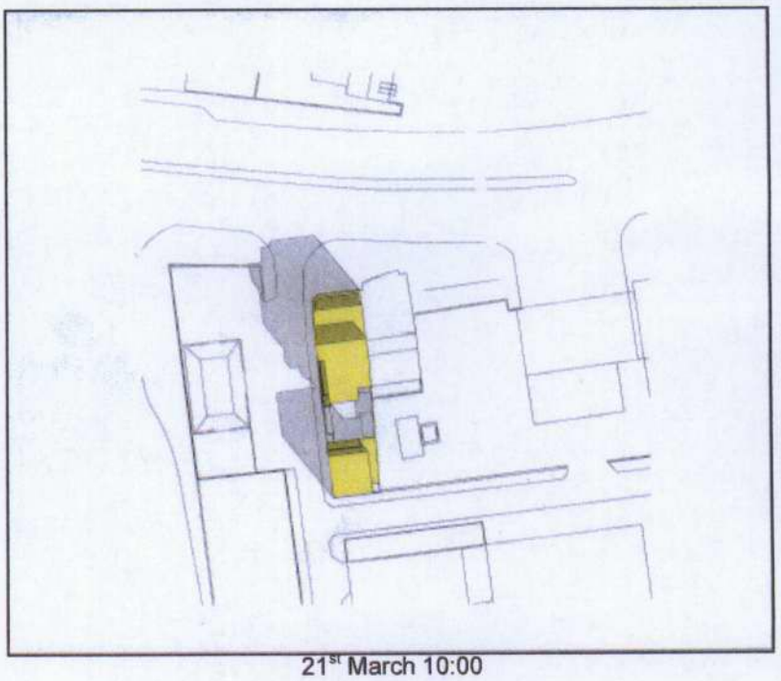
21st June 20:00



21st June 20:00 Full Extent of Shadow



21st March 08:00



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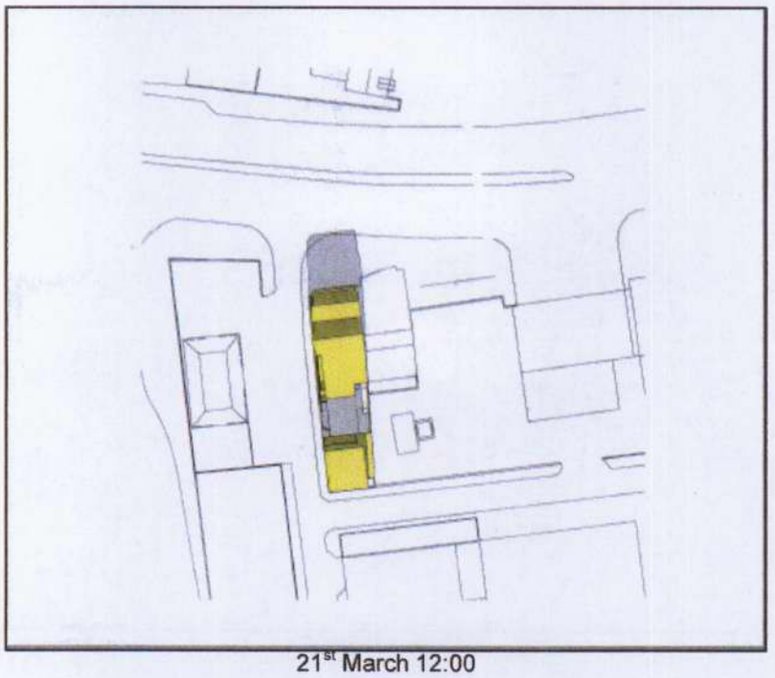

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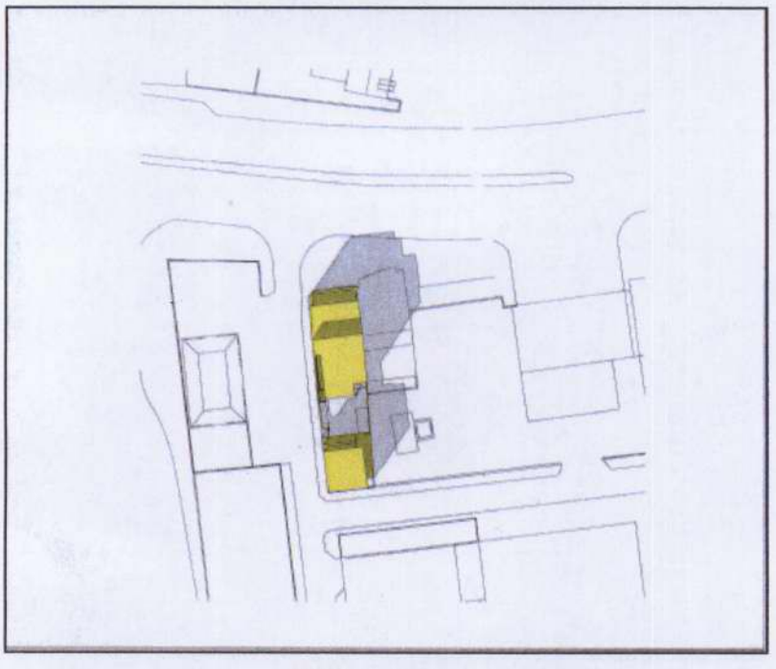

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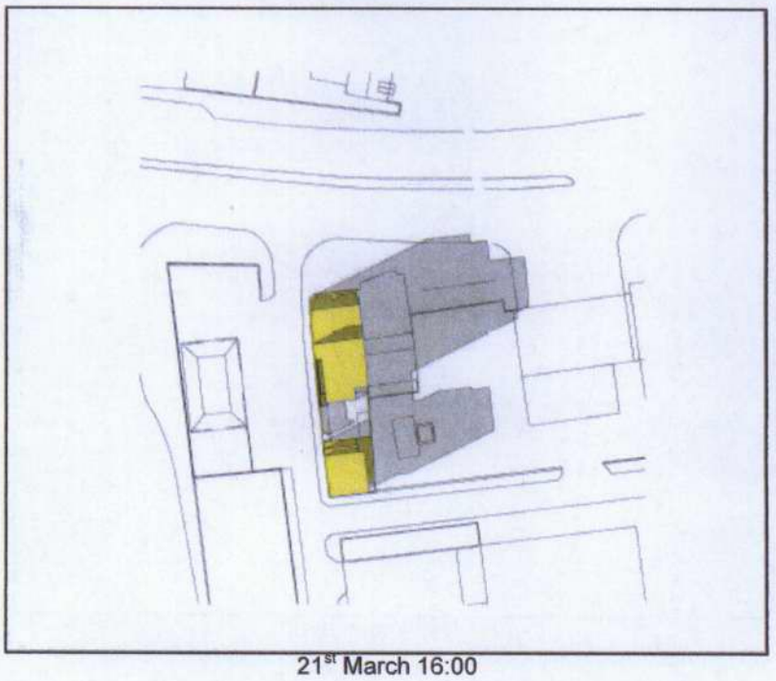

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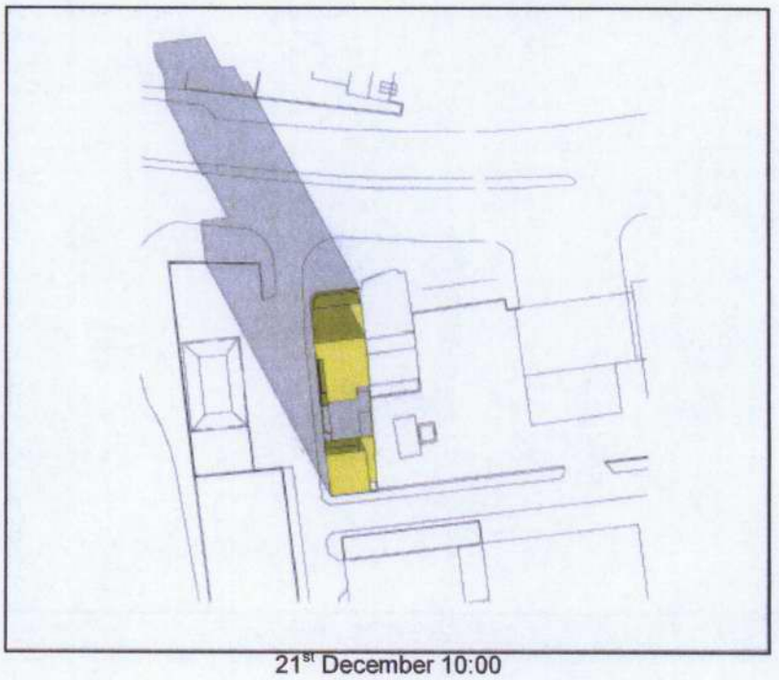
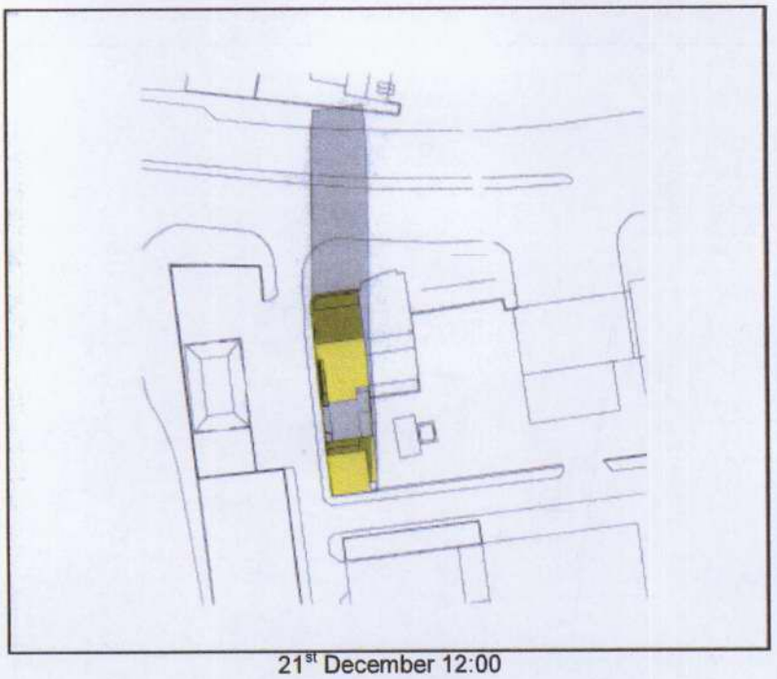


21st December 10:00



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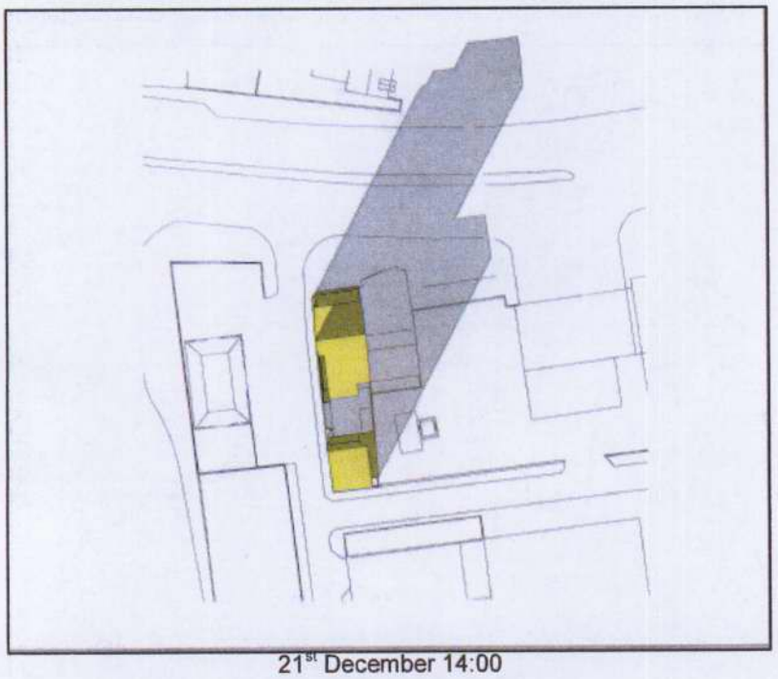

21st December 14:00

Appendix 2
Daylight to Existing and Proposed Residential Buildings

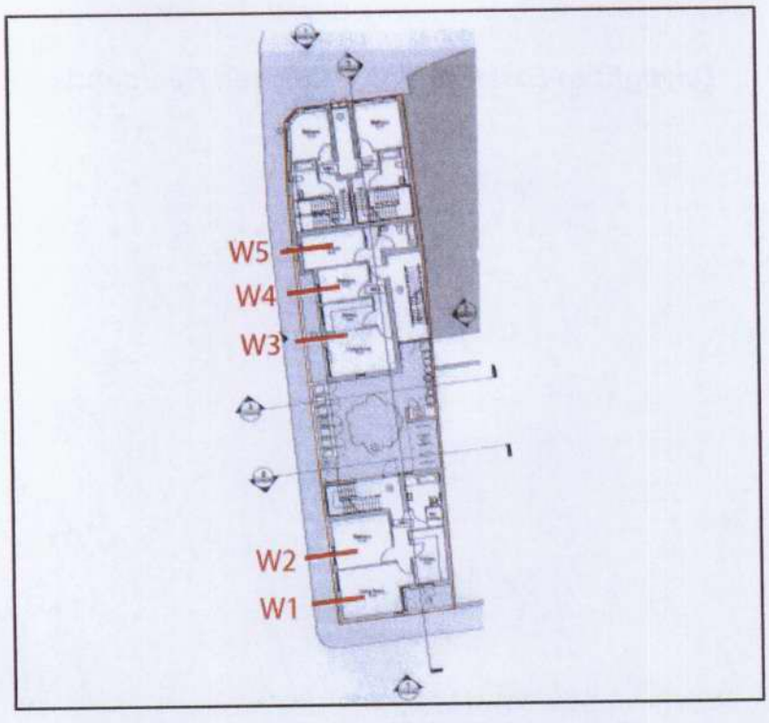

Figure 3 Window location plan for sunlight/daylight assessments to proposed buildings.

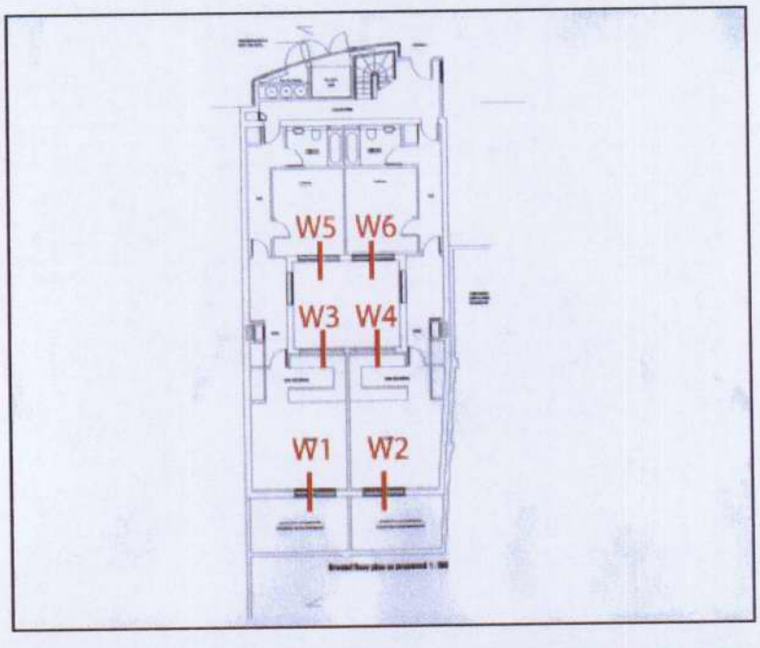

Figure 4 Window location plan for sunlight/daylight assessments to existing buildings.

Average Daylight Factor Assessment to Existing Buildings

Project: The Shakespeare Lower Richmond Road 30/10/2009

Existing - After Development

Average Daylight Factor Assessment

Assessment taken from: Ground Floor

Window: 1

room width	3.72
room depth	5.272
room height	2.4

df $= \frac{T}{A(1-R2)} \times Aw \times \theta$ %

T	0.7
Aw	3.34
θ	60
A	82.38528
R	0.5

df is ***2.3*** % **Minimum *df* for Kitchen/Living Room = 2.0%**

Window: 2

room width	3.54
room depth	5.272
room height	2.4

df $= \frac{T}{A(1-R2)} \times Aw \times \theta$ %

T	0.7
Aw	3.34
θ	60
A	79.62336
R	0.5

df is ***2.3*** % **Minimum *df* for Kitchen/Living Room = 2.0%**

Window: 3

room width	3.72
room depth	5.272
room height	2.4

df $\frac{T}{A(1-R2)}$ $\frac{Aw}{\vartheta^2}$ %

T	0.7
Aw	2.275
ϑ	31
A	82.38528
R	0.5

df is ***0.8*** % **Minimum *df* for Kitchen/Living Room = 2.0%**

Window: 4

room width	3.54
room depth	5.272
room height	2.4

df $\frac{T}{A(1-R2)}$ $\frac{Aw}{\vartheta^2}$ %

T	0.7
Aw	2.275
ϑ	31
A	79.62336
R	0.5

df is ***0.8*** % **Minimum *df* for Kitchen/Living Room = 2.0%**

Window: 5

room width	3.43
room depth	4.025
room height	2.4

df $\frac{T}{A(1-R2)}$ $\frac{Aw}{\vartheta^2}$ %

T	0.7
Aw	4
ϑ	35
A	63.3955
R	0.5

df is *2.1* % **Minimum *df* for Bedroom = 1%**

Window: 6

room width	3.54
room depth	4.025
room height	2.4

df $\frac{T}{A(1-R2)}$ $\underline{Aw}$ θ^2 %

T	0.7
Aw	4
θ	33
A	64.809
R	0.5

df is *1.9* % **Minimum *df* for Bedroom = 1%**

Average Daylight Factor Assessment to Proposed Building

Project: 5651/The Shakespeare Lower Richmond Rd Date:23-11-09

Proposed

Average Daylight Factor Assessment

Assessment taken from: GF/2m

Room 1

Window: R1W1

room width	3.7
room depth	4.6
room height	2.7

df $\frac{T}{A(1-R2)}$ $\frac{Aw}{\vartheta}$ %

T	0.7	
Aw	1.62	
ϑ	33	-15
A	78.86	
R	0.5	

df is ***0.6*** %

Window: R1W2

room width	3.7
room depth	4.6
room height	2.7

df $\frac{T}{A(1-R2)}$ $\frac{Aw}{\vartheta}$ %

T	0.7	
Aw	1.1	
ϑ	50	
A	78.86	
R	0.5	

df is ***0.7*** %

Window: R1W3

room width	3.7
room depth	4.6
room height	2.7

df $= \frac{T}{A(1-R2)} \times Aw \times \vartheta$ %

T	0.7
Aw	2.76
ϑ	50
A	78.86
R	0.5

df is ***1.6*** %

Total Adf = 2.9%

Minimum *df* for Living Room = 1.5%

Room 2

Window: R2W1 (Amend)

room width	3.7
room depth	4.6
room height	2.7

df $= \frac{T}{A(1-R2)} \times Aw \times \vartheta$ %

T	0.7
Aw	1.62
ϑ	58
A	78.86
R	0.5

df is ***1.1*** %

Minimum *df* for Bedroom = 1.0%

Room 3

Window: R3W1

room width	5.6
room depth	5.1
room height	2.7

df $= \frac{T}{A(1-R2)} \times Aw \times \vartheta$ %

T	0.7
Aw	1.1
ϑ	40
A	114.9
R	0.5

df is ***0.4*** %

Window: R3W2

room width	5.6
room depth	5.1
room height	2.7

df $= \frac{T}{A(1-R2)} \times Aw \times \vartheta$ %

T	0.7
Aw	4.2
ϑ	28
A	114.9
R	0.5

$(\vartheta = 64 - 36 = 28)$

df is ***1.0*** %

Total Adf = 1.9%

Minimum *df* for Living Room = 1.5%

Window: R3W3

room width	5.6
room depth	5.1
room height	2.7

df $= \frac{T}{A(1-R2)} \times Aw \times \vartheta$ %

T	0.7
Aw	1.8
ϑ	26
A	114.9
R	0.5

$(\vartheta = 62 - 36 = 26)$

df is ***0.4*** %

Minimum *df* for Kitchen = 2.0%

Room 4

Window: R4W1

room width	2.6
room depth	3.95
room height	2.7

df $\frac{T}{A(1-R2)}$ $\frac{Aw}{\vartheta^2}$ %

T	0.7
Aw	1.8
ϑ	19
A	55.91
R	0.5

$(\vartheta = 55 - 36 = 19)$

df is ***0.6*** %

Minimum *df* for Bedroom = 1.0%

Room 5

Window: R5W1

room width	2.6
room depth	4.9
room height	2.7

df $\frac{T}{A(1-R2)}$ $\frac{Aw}{\vartheta^2}$ %

T	0.7
Aw	1.1
ϑ	37
A	65.98
R	0.5

$(\vartheta = 55 - 36 = 19)$

df is ***0.6*** %

Minimum *df* for Bedroom = 1.0%

Window: R5W2

room width	2.6
room depth	4.9
room height	2.7

df $\frac{T}{}$ $\frac{Aw}{\vartheta^2}$ %

A(1-R2)

T	0.7	
Aw	1.1	
ϑ	46	$(\vartheta = 55 - 36 = 19)$
A	65.98	
R	0.5	

df is ***0.7*** %

Minimum *df* for Bedroom = 1.0%

Last page.