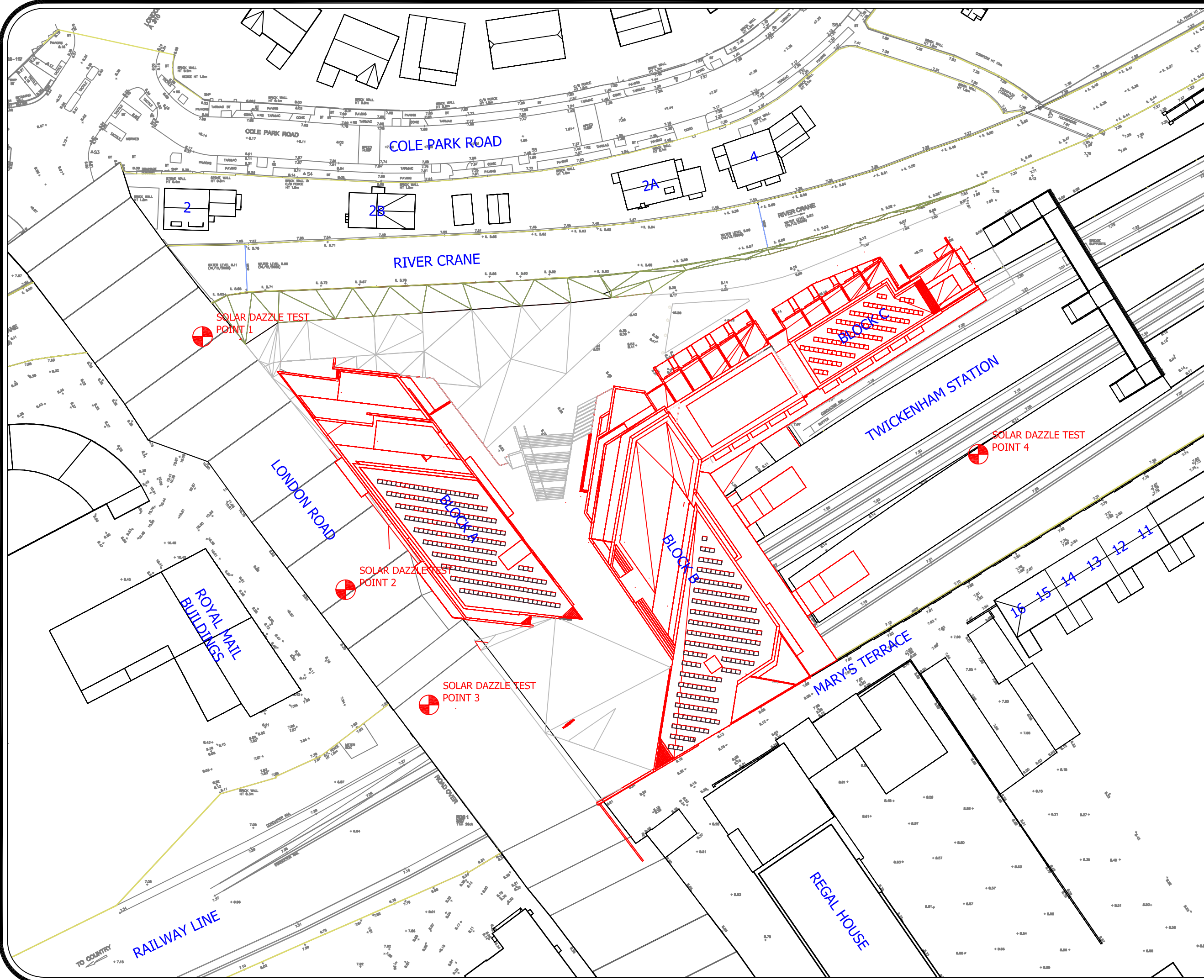




Appendix I-3: Solar Dazzle Analysis



LEGEND

BEHAN PARTNERSHIP LLP
3D CAD MODEL

SURVEY DRAWINGS
EWL/14418-SHEET_1, 2, 3 (REV 1), 4 - 14

ROLFE JUDD ARCHITECTS
4674/T(20)E01 - E06, P00, P01 - P07, P-1,
P-1M, S01 - S04.
SCHEME 7 STOREY PROPOSED SKETCHUP
MODEL

PLANNING ARCHIVE MATERIAL
RICHMOND UPON THAMES PLANNING DEPT
10 MARYS TERRACE
PROJECT DESIGN CONSULTANTS
AB/01 01 REV A

2A COLE PARK ROAD
RICHARD EWEN ARCHITECTS
REA/235/01, 02, 03.

PROPOSED DEVELOPMENT SHOWN IN RED

No.	Revision/Issue	Date



Behan Partnership LLP
Chartered Surveyors
Party Wall & Rights to Light
Experts
Berkeley House, Barnet Road,
St Albans, Hertfordshire AL2 1BG
07949 017369
mark@behanllp.co.uk

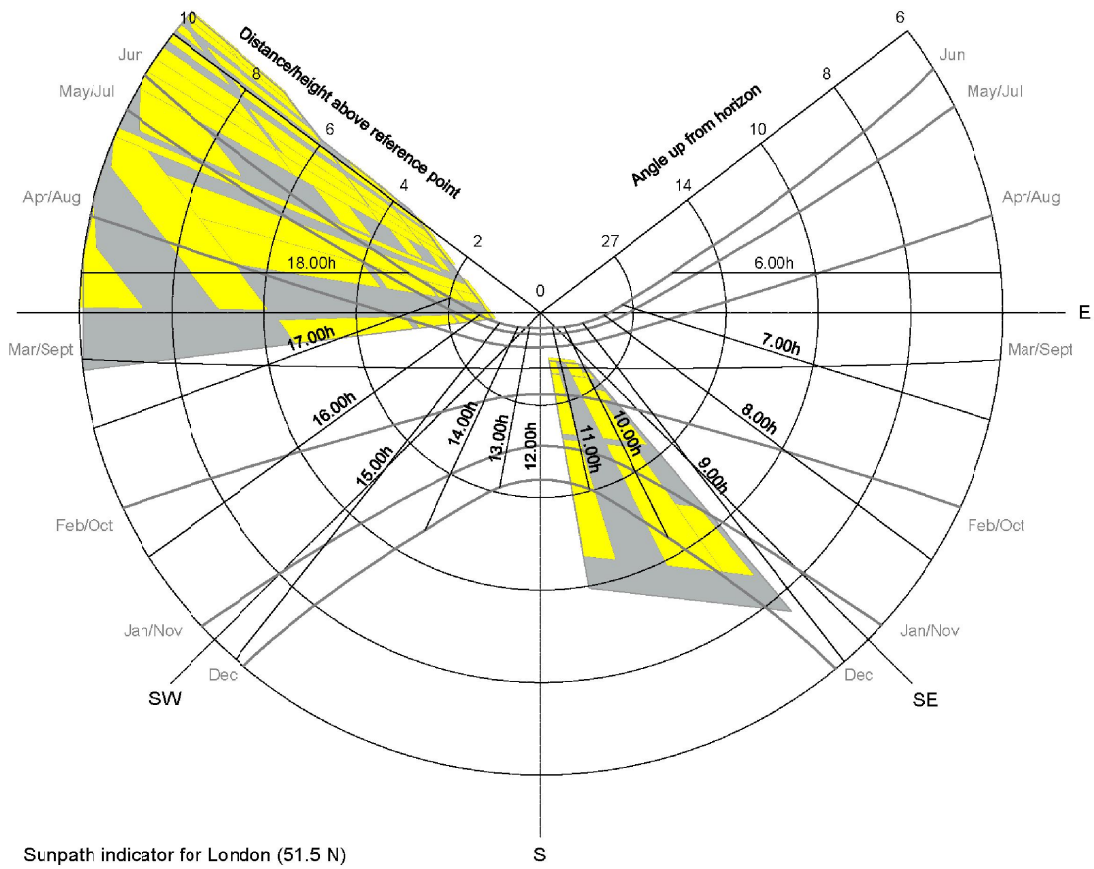
Project Name and Address

**TWICKENHAM STATION
TWICKENHAM
LONDON**

Drawing Description

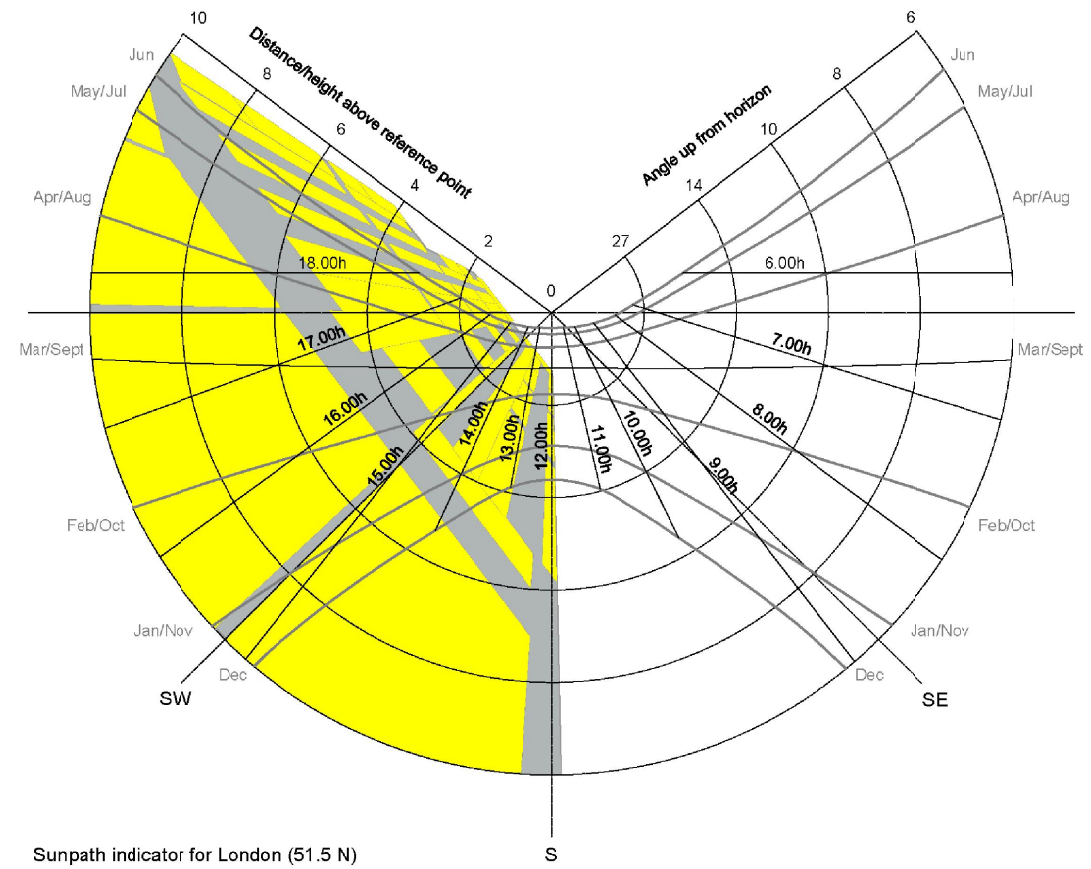
**SOLAR DAZZLE ANALYSIS
TEST POINT LOCATOR**

Project Reference 2010554	Drawing Sheet No 554/218
Date 16/3/2011	
Scale 1/600@A3	



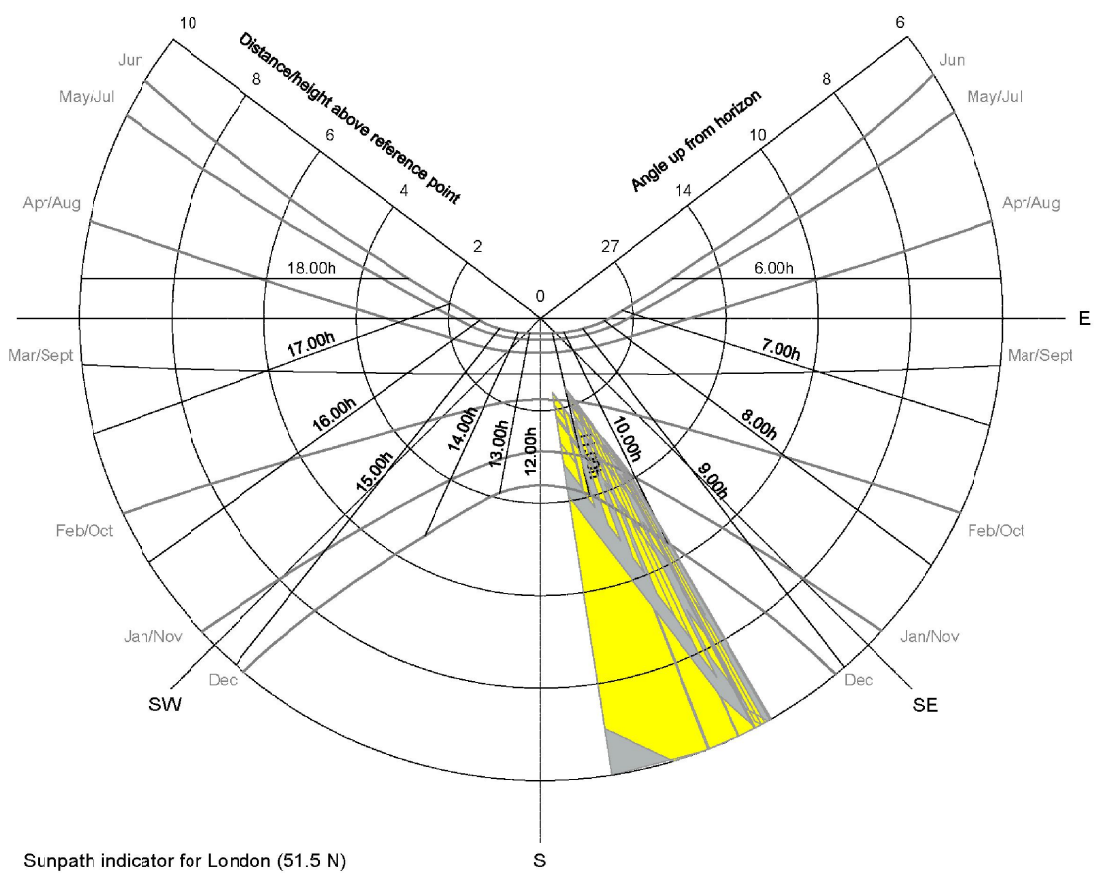
Sunpath indicator for London (51.5 N)

Solar Dazzle Test Point 1 (1.2m above road)



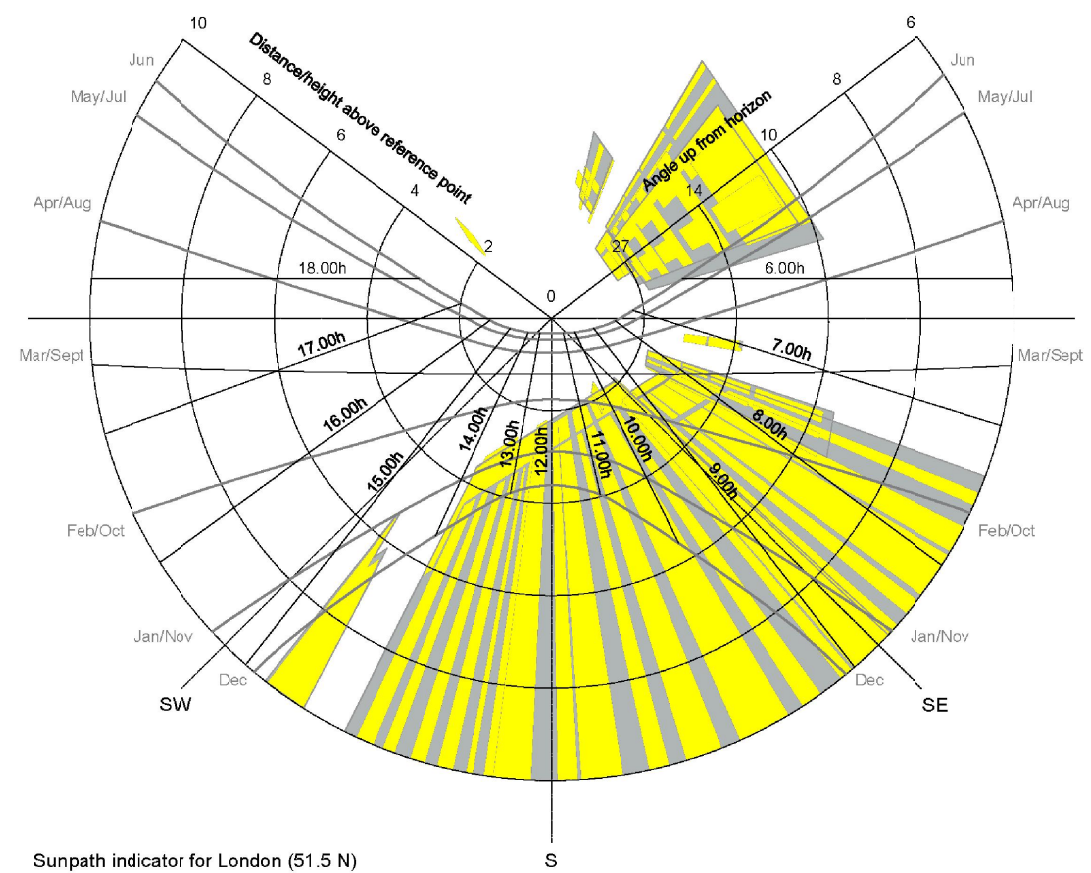
Sunpath indicator for London (51.5 N)

Solar Dazzle Test Point 2 (1.2m above road)



Sunpath indicator for London (51.5 N)

Solar Dazzle Test Point 3 (1.2m above road)



Sunpath indicator for London (51.5 N)

Solar Dazzle Test Point 4 (1.6m above platform)

LEGEND

BEHAN PARTNERSHIP LLP
3D CAD MODEL

SURVEY DRAWINGS
EW/14418-SHEET_1, 2, 3 (REV 1), 4 - 14

ROLFE JUDD ARCHITECTS
4674/T(20)E01 - E06, F00, F01 - F07, P-1,
P-1M, S01 - S04
SCHEME 7 STOREY PROPOSED SKETCHUP
MODEL

PLANNING ARCHIVE MATERIAL
RICHMOND UPON THAMES PLANNING DEPT
10 HARYS TERRACE
PROJECT DESIGN CONSULTANTS
AB/01 01 REV A

2A COLE PARK ROAD
RICHARD EWEN ARCHITECTS
REA/235/01, 02, 03.

NOTES

THE SUN PATH DIAGRAM SHOWS THE SUN ANGLES THAT MAY
CAUSE DAZZLE WHERE UNOBTAINED

NO ALLOWANCE FOR BUILDING OBSTRUCTIONS HAVE BEEN
MADE

LEGEND

█ BUILDING FOOTPRINT
█ GLAZED AREA

No.	Revision/Date	Date

beh an partnership LLP
Chartered Surveyors

Behan Partnership LLP
Chartered Surveyors
Party Wall & Rights to Light
Experts
Berkeley House, Barnet Road,
St Albans, Hertfordshire AL2 1BG
07949 017369
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Project Name and Address

**TWICKENHAM STATION
TWICKENHAM
LONDON**

Drawing Description

**SOLAR DAZZLE ANALYSIS
SUN PATH DIAGRAMS FOR
TEST POINTS SHOWING
AREAS WHERE SOLAR
DAZZLE MAY OCCUR**

Project Reference 2010554	Drawing Number 554/219
Date 16/3/2011	
Scale 1/600@A3	



Appendix I-4: Daylight Sunlight Results

Room	Window	EXISTING VSC	PROPOSED VSC	LOSS VSC	%LOSS VSC	PASS/ FAIL
<u>2 COLE PARK ROAD</u>						
<u>Ground Floor</u>						
Room 1	WG/1	28.87	28.87	0.00	0.00	PASS
	WG/2	32.83	31.38	1.45	-4.42	PASS
Room 2	WG/3	27.27	24.70	2.57	-9.42	PASS
Room 3	WG/4	30.36	27.83	2.53	-8.33	PASS
	WG/5	35.87	33.36	2.51	-7.00	PASS
<u>First Floor</u>						
Room 1	W1/1	36.96	35.77	1.19	-3.22	PASS
Room 2	W1/2	37.00	35.42	1.58	-4.27	PASS
Room 3	W1/3	37.72	35.53	2.19	-5.81	PASS
<u>2B COLE PARK ROAD</u>						
<u>Ground Floor</u>						
Room 1	WG/1	35.43	27.94	7.49	-21.14	PASS
	WG/2	35.54	27.42	8.12	-22.85	PASS
Room 2	WG/3	35.25	32.42	2.83	-8.03	PASS
	WG/4	34.90	32.97	1.93	-5.53	PASS
<u>First Floor</u>						
Room 1	W1/1	36.83	30.25	6.58	-17.87	PASS
Room 2	W1/2	37.00	29.71	7.29	-19.70	PASS
	W1/3	38.06	35.55	2.51	-6.59	PASS
Room 3	W1/4	37.95	35.69	2.26	-5.96	PASS
<u>2A COLE PARK ROAD</u>						
<u>Ground Floor</u>						
Living Room	WG/1	32.27	29.31	2.96	-9.17	PASS
	WG/2	36.38	33.19	3.19	-8.77	PASS
	WG/3	35.34	27.22	8.12	-22.98	PASS
	WG/4	35.64	27.60	8.04	-22.56	PASS
Dining Room	WG/5	35.83	27.73	8.10	-22.61	PASS
Kitchen	WG/6	26.91	20.49	6.42	-23.86	FAIL
	WG/7	28.47	28.47	0.00	0.00	PASS
<u>First Floor</u>						
Bedroom 2	W1/1	37.09	37.09	0.00	0.00	PASS
	W1/2	37.89	35.24	2.65	-6.99	PASS
	W1/3	37.20	30.41	6.79	-18.25	PASS
Bedroom 1	W1/4	36.15	34.59	1.56	-4.32	PASS
	W1/5	36.13	34.95	1.18	-3.27	PASS
	W1/6	37.31	37.31	0.00	0.00	PASS
<u>Second Floor</u>						
Bedroom 3	W2/1	36.98	32.32	4.66	-12.60	PASS
	W2/2	38.70	37.84	0.86	-2.22	PASS

Room	Window	EXISTING VSC	PROPOSED VSC	LOSS VSC	%LOSS VSC	PASS/ FAIL
<u>4 COLE PARK ROAD</u>						
<u>Ground Floor</u>						
Reception Room	WG/1	23.75	20.88	2.87	-12.08	PASS
	WG/2	28.24	21.31	6.93	-24.54	FAIL
	WG/3	21.66	17.94	3.72	-17.17	PASS
	WG/4	36.04	27.48	8.56	-23.75	PASS
Living Room	WG/5	27.45	25.63	1.82	-6.63	PASS
	WG/6	32.29	30.93	1.36	-4.21	PASS
	WG/7	19.42	19.42	0.00	0.00	PASS
	WG/8	23.06	18.88	4.18	-18.13	PASS
Room 1	WG/9	35.47	30.50	4.97	-14.01	PASS
	WG/10	36.15	33.92	2.23	-6.17	PASS
	WG/11	35.66	31.57	4.09	-11.47	PASS
	WG/12	37.77	37.71	0.06	-0.16	PASS
<u>First Floor</u>						
Bedroom 1	W1/1	34.11	30.95	3.16	-9.26	PASS
Bedroom 2	W1/2	36.52	33.14	3.38	-9.26	PASS
	W1/3	39.05	38.95	0.10	-0.26	PASS
<u>16 Mary's Terrace</u>						
<u>Ground Floor</u>						
Living Room	WG/1	31.88	28.62	3.26	-10.23	PASS
	WG/2	32.08	28.79	3.29	-10.26	PASS
<u>First Floor</u>						
Bedroom	W1/1	38.90	33.23	5.67	-14.58	PASS
	W1/2	38.90	33.63	5.27	-13.55	PASS
<u>15 Mary's Terrace</u>						
<u>Ground Floor</u>						
Living Room	WG/1	31.97	29.50	2.47	-7.73	PASS
<u>First Floor</u>						
Bedroom 2	W1/1	38.91	34.10	4.81	-12.36	PASS
Bedroom 1	W1/2	38.90	34.45	4.45	-11.44	PASS
<u>14 Mary's Terrace</u>						
<u>Ground Floor</u>						
Living Room	WG/1	31.97	30.06	1.91	-5.97	PASS
<u>First Floor</u>						
Bedroom 1	W1/1	38.90	34.62	4.28	-11.00	PASS
Bedroom 2	W1/2	38.89	34.93	3.96	-10.18	PASS

Room	Window	EXISTING VSC	PROPOSED VSC	LOSS VSC	%LOSS VSC	PASS/ FAIL
<u>13 Mary's Terrace</u>						
<u>Ground Floor</u>						
Living Room	WG/1	32.19	30.08	2.11	-6.55	PASS
<u>First Floor</u>						
Bedroom 2	W1/1	38.88	35.35	3.53	-9.08	PASS
Bedroom 1	W1/2	38.87	35.61	3.26	-8.39	PASS
<u>12 Mary's Terrace</u>						
<u>Ground Floor</u>						
Living Room	WG/1	32.16	30.46	1.70	-5.29	PASS
<u>First Floor</u>						
Bedroom 1	W1/1	38.89	35.74	3.15	-8.10	PASS
Bedroom 2	W1/2	38.85	35.96	2.89	-7.44	PASS
<u>11 Mary's Terrace</u>						
<u>Ground Floor</u>						
Living Room	WG/1	32.10	30.96	1.14	-3.55	PASS
	WG/2	32.49	31.15	1.34	-4.12	PASS
<u>First Floor</u>						
Bedroom	W1/1	38.84	36.24	2.60	-6.69	PASS
	W1/2	38.83	36.43	2.40	-6.18	PASS

Room	Window	EXISTING			PROPOSED			LOSS Total	% LOSS	PASS/ FAIL
		Summer	Winter	Total	Summer	Winter	Total			
<u>2 COLE PARK ROAD</u>										
<u>Ground Floor</u>										
Living Room	WG/2	58	24	82	58	20	78	4	-4.9	Pass
<u>2B COLE PARK ROAD</u>										
<u>Ground Floor</u>										
Room 1	WG/1	58	29	87	58	21	79	8	-9.2	Pass
<u>2A COLE PARK ROAD</u>										
<u>Ground Floor</u>										
Living Room	WG/2	37	19	56	37	14	51	5	-8.9	Pass
<u>4 COLE PARK ROAD</u>										
<u>Ground Floor</u>										
Living Room	WG/4	57	30	87	57	17	74	13	-14.9	Pass

Room	Window	EXISTING VSC	PROPOSED VSC	LOSS VSC	%LOSS VSC
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TWICKENHAM STATION
BRIDGE LEVEL

Block A

Living / Kitchen / Diner	WG/01	N/A	27.50	N/A	N/A
Bedroom 1	WG/02	N/A	25.50	N/A	N/A
Bedroom 2	WG/03	N/A	25.00	N/A	N/A

Block B

Living / Kitchen / Diner	WG/04	N/A	24.50	N/A	N/A
Bedroom 1	WG/05	N/A	26.00	N/A	N/A

Block C

Bedroom 1	WG/06	N/A	38.50	N/A	N/A
	WG/07	N/A	39.00	N/A	N/A
Living / Kitchen / Diner	WG/08	N/A	24.50	N/A	N/A

Room	Window	EXISTING		PROPOSED		TOTAL LOSS	%LOSS ADF	PASS/ FAIL
		ADF	TOTAL	ADF	TOTAL			

TWICKENHAM STATION

BRIDGE LEVEL

Block A

Living / Kitchen / Diner	WG/01	N/A	N/A	3.74	3.74	N/A	N/A	PASS
Bedroom 1	WG/02	N/A	N/A	3.62	3.62	N/A	N/A	PASS
Bedroom 2	WG/03	N/A	N/A	3.19	3.19	N/A	N/A	PASS

Block B

Living / Kitchen / Diner	WG/04	N/A	N/A	2.56	2.56	N/A	N/A	PASS
Bedroom 1	WG/05	N/A	N/A	5.52	5.52	N/A	N/A	PASS

Block C

Bedroom 1	WG/06	N/A	N/A	2.26	4.54	N/A	N/A	PASS
	WG/07	N/A	N/A	2.28				
Living / Kitchen / Diner	WG/08	N/A	N/A	4.22	4.22	N/A	N/A	PASS

Room	Window	EXISTING			PROPOSED			LOSS Total	% LOSS	PASS/ FAIL
		Summer	Winter	Total	Summer	Winter	Total			

TWICKENHAM STATION

BRIDGE LEVEL

Block A

Living / Kitchen / Diner	WG/08	N/A	N/A	N/A	30	9	39	N/A	N/A	Pass
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Appendix I-5: Daylight Distribution Results

Room	Window	EXISTING DD	PROPOSED DD	LOSS DD	%LOSS DD	PASS/ FAIL
<u>2 COLE PARK ROAD</u>						
<u>Ground Floor</u>						
Room 1	WG/1	99.80	99.80	0.00	0.00	PASS
	WG/2					
Room 2	WG/3	90.60	90.60	0.00	0.00	PASS
Room 3	WG/4	97.50	97.50	0.00	0.00	PASS
	WG/5					
<u>First Floor</u>						
Room 1	W1/1	92.90	92.90	0.00	0.00	PASS
Room 2	W1/2	95.10	95.10	0.00	0.00	PASS
Room 3	W1/3	98.90	98.90	0.00	0.00	PASS
<u>2B COLE PARK ROAD</u>						
<u>Ground Floor</u>						
Room 1	WG/1	98.10	97.00	1.10	-1.12	PASS
	WG/2					
Room 2	WG/3	99.90	99.60	0.30	-0.30	PASS
	WG/4					
<u>First Floor</u>						
Room 1	W1/1	99.10	99.10	0.00	0.00	PASS
Room 2	W1/2	99.60	99.60	0.00	0.00	PASS
	W1/3					
Room 3	W1/4	98.30	98.20	0.10	-0.10	PASS
<u>2A COLE PARK ROAD</u>						
<u>Ground Floor</u>						
	WG/1					
Living Room	WG/2	99.90	99.60	0.30	-0.30	PASS
	WG/3					
	WG/4					
Dining Room	WG/5	99.00	89.80	9.20	-9.29	PASS
Kitchen	WG/6	90.80	90.80	0.00	0.00	PASS
	WG/7					
<u>First Floor</u>						
Bedroom 2	W1/1	99.90	99.90	0.00	0.00	PASS
	W1/2					
	W1/3					
Bedroom 1	W1/4	99.90	99.80	0.10	-0.10	PASS
	W1/5					
	W1/6					
<u>Second Floor</u>						
Bedroom 3	W2/1	99.30	99.30	0.00	0.00	PASS
	W2/2					

Room	Window	EXISTING DD	PROPOSED DD	LOSS DD	%LOSS DD	PASS/ FAIL
<u>4 COLE PARK ROAD</u>						
<u>Ground Floor</u>						
Reception Room	WG/1					
	WG/2	98.70	98.70	0.00	0.00	PASS
	WG/3					
	WG/4					
Living Room	WG/5	98.70	98.50	0.20	-0.20	PASS
	WG/6					
	WG/7					
	WG/8					
Room 1	WG/9					
	WG/10	99.90	99.90	0.00	0.00	PASS
	WG/11					
	WG/12					
<u>First Floor</u>						
Bedroom 1	W1/1	97.20	97.20	0.00	0.00	PASS
Bedroom 2	W1/2	98.30	98.30	0.00	0.00	PASS
	W1/3					
<u>16 Mary's Terrace</u>						
<u>Ground Floor</u>						
Living Room	WG/1	97.80	97.30	0.50	-0.51	PASS
	WG/2					
<u>First Floor</u>						
Bedroom	W1/1	97.60	97.10	0.50	-0.51	PASS
	W1/2					
<u>15 Mary's Terrace</u>						
<u>Ground Floor</u>						
Living Room	WG/1	96.90	96.90	0.00	0.00	PASS
<u>First Floor</u>						
Bedroom 2	W1/1	95.60	95.60	0.00	0.00	PASS
Bedroom 1	W1/2	96.80	96.80	0.00	0.00	PASS

Room	Window	EXISTING DD	PROPOSED DD	LOSS DD	%LOSS DD	PASS/ FAIL
<u>14 Mary's Terrace</u>						
<u>Ground Floor</u>						
Living Room	WG/1	97.00	97.00	0.00	0.00	PASS
<u>First Floor</u>						
Bedroom 1	W1/1	95.70	95.70	0.00	0.00	PASS
Bedroom 2	W1/2	97.50	97.50	0.00	0.00	PASS
<u>13 Mary's Terrace</u>						
<u>Ground Floor</u>						
Living Room	WG/1	97.00	97.00	0.00	0.00	PASS
<u>First Floor</u>						
Bedroom 2	W1/1	96.70	96.70	0.00	0.00	PASS
Bedroom 1	W1/2	95.60	95.60	0.00	0.00	PASS
<u>12 Mary's Terrace</u>						
<u>Ground Floor</u>						
Living Room	WG/1	96.90	96.90	0.00	0.00	PASS
<u>First Floor</u>						
Bedroom 1	W1/1	95.60	95.60	0.00	0.00	PASS
Bedroom 2	W1/2	98.10	98.10	0.00	0.00	PASS
<u>11 Mary's Terrace</u>						
<u>Ground Floor</u>						
Living Room	WG/1 WG/2	97.80	97.80	0.00	0.00	PASS
<u>First Floor</u>						
Bedroom	W1/1 W1/2	97.50	97.50	0.00	0.00	PASS

Room	Window	EXISTING DD	PROPOSED DD	LOSS DD	%LOSS DD	PASS/ FAIL
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TWICKENHAM STATION
BRIDGE LEVEL

Block A

Living / Kitchen / Diner	WG/01	N/A	99.40	N/A	N/A	PASS
Bedroom 1	WG/02	N/A	73.20	N/A	N/A	PASS
Bedroom 2	WG/03	N/A	88.90	N/A	N/A	PASS

Block B

Living / Kitchen / Diner	WG/04	N/A	64.20	N/A	N/A	PASS
Bedroom 1	WG/05	N/A	99.90	N/A	N/A	PASS

Block C

Bedroom 1	WG/06	N/A	98.90	N/A	N/A	PASS
	WG/07	N/A				
Living / Kitchen / Diner	WG/08	N/A	99.60	N/A	N/A	PASS