Shadow Envelope - CITY ONE DESIGN PROJECT (RL: 106m) - Wynyard Park







Proposed Design Parameters

3D Architectural Imaging Data ref: detail model.max Dated: March 2009

• Proposed shadow envelope and angle derived from survey calculations based on Martin Place shadow definition

• Shadow Plans are diagrammatic representations of survey calculations for Martin Place Shadow Definition at 1200hrs, 1300hrs and 1400hrs at the Winter Solstice

on survey calculations

• At RL 106m, the sun shadow is simulated to comply with the provisions of Clause 49 of Sydney Local Environmental Plan 2005

		PREPARED FOR: Thakral Corporation	SURVEY CHECKED	FAN BJF	DATE OF SURVEY DATE	30-07-2010 03-08-2010	ORIGINAL SIZE: SCALE: HOR	VER	A3	Plan Showing	12-2pm 21s
			APPROVED		DATE	04-08-2010	CO-ORDS:	DAT	UM: AHD	_	
			DRAWN	FAN	DATE OF PLAN	03-08-2010					201 Coordo
			JOB REF	C940	SHEET 1 of 1	SHEETS				Location	301 George
No. Date	Revision Details INI		CAD REF	C940-NewRL-FINAL-WYN	21JUNE.dwg			© Whelans InSites Pty Ltd 2010			5 9



• Existing Buildings Modelled from photogrammetry

• Proposed 3D Building Models received from:

• Existing Natural surface shown modelled from LiDAR and photogrammetry.

• Diagrammatic representations for all other times are software generated and not based

1st June (Winter Solstice) 2010 ge Street Sydney NSW 2000

Shadow Envelope - CITY ONE DESIGN PROJECT (RL: 125m) - Wynyard Park







Proposed Design Parameters

3D Architectural Imaging Data ref: detail model.max Dated: March 2009

• Proposed shadow envelope and angle derived from survey calculations based on Martin Place shadow definition

• Shadow Plans are diagrammatic representations of survey calculations for Martin Place Shadow Definition at 1200hrs, 1215hrs and 1230hrs at the Winter Solstice

on survey calculations

	PREPARED FOR: Thakral Corporation SURVEY CHECKED APPROVED	FAN BJF MGL	DATE OF SURVEY DATE DATE	30-07-2010 03-08-2010 04-08-2010	ORIGINAL SIZE: SCALE: HOR CO-ORDS:	A3 Vert: Datum: AHD	Plan Showing	12:00-12:30p
No. Date Revision Details INI	DRAWN JOB REF CAD REF	FAN C940 C940-OldDesign-FINAL-W	DATE OF PLAN SHEET 1 of 3 YN-21JUNE_She		© Whelans InSites Pty Ltd 2010		Location	301 George S



• Existing Buildings Modelled from photogrammetry

• Proposed 3D Building Models received from:

• Existing Natural surface shown modelled from LiDAR and photogrammetry.

• Diagrammatic representations for all other times are software generated and not based

Opm 21st June (Winter Solstice) 2010 Street Sydney NSW 2000

Shadow Envelope - CITY ONE DESIGN PROJECT (RL: 125m) - Wynyard Park





21 Ju	une 2010
1=	12: 45pm
2=	13: 00pm
3=	() 13:15pm
Legen	d:
	Sun shadow from the CityOne Building (RL: 125m)
\mathbf{X}	Sun shadow from other buildings
1	Martin Place Boundary

Proposed Design Parameters

3D Architectural Imaging Data ref: detail model.max Dated: March 2009

• Proposed shadow envelope and angle derived from survey calculations based on Martin Place shadow definition

• Shadow Plans are diagrammatic representations of survey calculations for Martin Place Shadow Definition at 1245hrs, 1300hrs and 1315hrs at the Winter Solstice

on survey calculations

F	PREPARED FOR: Thakral Corporation SURVEY CHECKED	FAN BJF	DATE OF SURVEY 30-07-2 DATE 03-08-2	2010 SCALE: HOR	A3 Vert:	Plan Showing	12:45-13:15
	APPROVED DRAWN JOB REF	MGL FAN C940	DATE 04-08-2 DATE OF PLAN 03-08-2 SHEET 2 of 3 SHEETS		datum: Ahd	- Location	301 George
No. Date Revision Details INI	CAD REF	C940-OldDesign-FINAL-W	YN-21JUNE_Sheet2.dwg		© Whelans InSites Pty Ltd 2010		557 575 97



• Existing Buildings Modelled from photogrammetry

• Proposed 3D Building Models received from:

• Existing Natural surface shown modelled from LiDAR and photogrammetry.

• Diagrammatic representations for all other times are software generated and not based

15pm 21st June (Winter Solstice) 2010 je Street Sydney NSW 2000

Shadow Envelope - CITY ONE DESIGN PROJECT (RL: 125m) - Wynyard Park







Martin Place Boundary

3D Architectural Imaging Data ref: detail model.max Dated: March 2009

• Proposed shadow envelope and angle derived from survey calculations based on Martin Place shadow definition

- on survey calculations

			SURVEY CHECKED	FAN BJF	DATE OF SURVEY DATE	03-08-2010	SCALE: HOR	VERT:		Plan Showing	13:30-14:00
			APPROVED DRAWN JOB REF	MGL FAN C940	DATE DATE OF PLAN SHEET 3 of 3	04-08-2010 03-08-2010 SHEETS	CO-ORDS:	DATUN	1: AHD	- Location	301 George
No	. Date	Revision Details INI	CAD REF	C940-OldDesign-FINAL-W	MN-21JUNE_She	et3.dwg		© Whelans InSites Pty Ltd 2010			U U



Proposed Design Parameters

• Existing Buildings Modelled from photogrammetry

• Proposed 3D Building Models received from:

• Existing Natural surface shown modelled from LiDAR and photogrammetry.

• Shadow Plans are diagrammatic representations of survey calculations for Martin Place Shadow Definition at 1330hrs, 1345hrs and 1400hrs at the Winter Solstice

• Diagrammatic representations for all other times are software generated and not based

00pm 21st June (Winter Solstice) 2010 je Street Sydney NSW 2000









Proposed Design Parameters

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3D architectural imaging Data ref: detail model max Dated: March 2009

- calculations.

Legend



Shadow Extent

ORIGINAL SIZE: SCALE: HOR N/A CO-ORDS: N/A

VERT: N/A DATUM: N/A

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9am, 12pm & 3pm 21st March (Autumn Equinox) 2010 Plan Showing 301 George Street Sydney NSW 2000 Location

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Revision Details

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THAKRAL CAD REF

PREPARED FOR: Thakral Corporation

JOB REF C940

SURVEY N/A CHECKED MGL APPROVED MGL

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 DATE OF SURVEY
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 DATE
 01.12.2010

 DATE
 01.12.2010

 DATE
 01.12.2010

 DATE OF PLAN
 29.11.2010
 SHEET 1 of 6 SHEETS D105-IceBlock-CBD-21MAR.dwg



• Existing buildings modelled from photogrammetry and are indicative only.

Proposed 3D building models received from:

• Existing natural surface shown modelled from LiDAR and photogrammetry.

• Diagrammatic representations are software generated and not based on survey





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Legend



Proposed Design Parameters

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3D architectural imaging Data ref: detail model max Dated: March 2009

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	DRAWN

PREPARED FOR: Thakral Corporation









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A3 Vert: N/A Datum: N/A Plan Showing _ Location

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Revision Details



Existing buildings modelled from photogrammetry and are indicative only.

Proposed 3D building models received from:

• Existing natural surface shown modelled from LiDAR and photogrammetry.

• Diagrammatic representations are software generated and not based on survey

9am, 12pm & 3pm 14th April 2010 301 George Street Sydney NSW 2000









Proposed Design Parameters

3D architectural imaging Data ref: detail model max Dated: March 2009

- calculations.

Legend

ORIGINAL SIZE: SCALE: HOR N/A CO-ORDS: N/A



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A3 Vert: N/A Datum: N/A

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9am, 12pm & 3pm 21st June (Winter Solstice) 2010 Plan Showing 301 George Street Sydney NSW 2000 Location

No

Revision Details

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PREPARED FOR: Thakral Corporation

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SURVEY N/A CHECKED MGL APPROVED MGL

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D105-IceBlock-CBD-21JUNE.dwg

 DATE OF SURVEY
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 DATE
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 DATE
 01.12.2010

 DATE OF PLAN
 29.11.2010

SHEET 3 of 6 SHEETS



• Existing buildings modelled from photogrammetry and are indicative only.

• Proposed 3D building models received from:

• Existing natural surface shown modelled from LiDAR and photogrammetry.

• Diagrammatic representations are software generated and not based on survey









Proposed Design Parameters

3D architectural imaging Data ref: detail model.max Dated: March 2009

- calculations.

Legend



Shadow Extent

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PREPARED FOR: Thakral Corporation



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 DATE OF SURVEY
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 DATE
 01.12.2010

 DATE
 01.12.2010

 DATE OF PLAN
 29.11.2010
 SHEET 4 of 6 SHEETS

ORIGINAL SIZE: SCALE: HOR N/A CO-ORDS: N./A

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Existing buildings modelled from photogrammetry and are indicative only.

Proposed 3D building models received from:

• Existing natural surface shown modelled from LiDAR and photogrammetry.

• Diagrammatic representations are software generated and not based on survey

9am, 12pm & 3pm 31st August 2010 301 George Street Sydney NSW 2000









Proposed Design Parameters

3D architectural imaging Data ref: detail model max Dated: March 2009

- calculations.







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Revision Details

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PREPARED FOR: Thakral Corporation

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 DATE OF SURVEY
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 DATE
 01.12.2010

 DATE
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 DATE OF PLAN
 29.11.2010
 SHEET 5 of 6 SHEETS

ORIGINAL SIZE: SCALE: HOR N/A CO-ORDS: N/A

Location

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• Existing buildings modelled from photogrammetry and are indicative only.

• Proposed 3D building models received from:

• Existing natural surface shown modelled from LiDAR and photogrammetry.

• Diagrammatic representations are software generated and not based on survey

Plan Showing 9am, 12pm & 3pm 21st September (Spring Equinox) 2010 301 George Street Sydney NSW 2000





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Legend

ORIGINAL SIZE: SCALE: HOR N/A CO-ORDS: N/A

 DATE OF SURVEY
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 DATE
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 DATE
 01.12.2010

 DATE OF PLAN
 29.11.2010

SHEET 6 of 6 SHEETS



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A3 Vert: N/A Datum: N/A

Plan Showing

Location

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Proposed Design Parameters

3D architectural imaging Data ref: detail model max Dated: March 2009

- calculations.

PREPARED FOR: Thakral Corporation	SURVEY	N/A
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D105-IceBlock-CBD-21DEC.dwg

PREPARED FOR: Thakral Corporation

No. Date Revision Details



• Existing buildings modelled from photogrammetry and are indicative only.

• Proposed 3D building models received from:

• Existing natural surface shown modelled from LiDAR and photogrammetry.

• Diagrammatic representations are software generated and not based on survey

9am, 12pm & 3pm 21st December (Summer Solstice) 2010

301 George Street Sydney NSW 2000