

AMP CIRCULAR QUAY PRECINCT MASTER PLAN – ADDITIONAL SHADOW AND SUN ACCESS REPORT

Prepared for AMP Capital
18 December 2012

Architecture	Australia
Interior Design	China
Landscape Architecture	Hong Kong SAR
Planning	Singapore
Urban Design	Thailand
	United Kingdom

Contact

Matthew Pullinger Principal
mpullinger@hassellstudio.com

HASSELL
Level 2
88 Cumberland Street
Sydney NSW
Australia 2000
T +61 2 9101 2000
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INTRODUCTION

1

EXECUTIVE SUMMARY

3

SHADOW AND SUN ACCESS STUDY

7

14 April
21 June
31 August

This shadow and sun access report has been prepared for AMP Capital in support of a formal request to the City of Sydney for an amendment to the Sydney LEP 2012 (SLEP) and Sydney DCP 2012 (DCP) and forms part of the Planning Justification Report submission for the AMP Circular Quay Precinct. The shadow and sun access report should be read in conjunction with the urban design report.

The Precinct

The AMP Circular Quay Precinct is made up of the area bounded by Loftus, Bridge, Phillip and Alfred Streets (but excluding land to the north of Customs House Lane and south of the east-west leg of Loftus Lane), it comprises the following buildings under the control of AMP Capital Investors:

The Bridge and Alfred Block

-50 Bridge Street Tower (AMP Centre)
-33 Alfred Street Tower (Sydney Cove Local heritage listed)

The Young and Loftus Block

-5-7 Young Street (Hinchcliff House, State heritage listed)
-9-13 Young Street
-15-17 Young Street
-2-10 Loftus Street (AMP General House)
-12 Loftus Street (Gallipoli Club, Local heritage listed)
-20 Loftus Street

The proposed amendments to the SLEP and DCP seek to facilitate a significant redevelopment of the AMP Circular Quay Precinct by transferring a notional floor space entitlement from the Young and Loftus block to the Bridge and Alfred Street block. This transfer of floor space from a constrained site to another more able to accommodate it will enable a significant transformation, reinforcing the economic viability and amenity of one of the key parts of the city.

Methodology

The overshadowing studies contained within this report have been produced by HASSELL using 3D Studio Max, and have been based on the following base information (see appendix):

- City model supplied by the City of Sydney, including city buildings and topography (The supplied model has an accuracy of +/- 300mm)
 - Survey Drawings prepared by Denny Linken & Co:
 - Plan showing detail and levels at First Government House Place and Macquarie Place Park (22/10/2012)
 - Plan showing elevations Young Street & Loftus Street (20/07/2012)
 - Survey Drawings prepared by Frank M Mason & Co:
 - Plan showing spot levels and features over AMP property between Young and Loftus Streets (22/02/2001)
 - Sections showing typical structure north-south
 - Plan showing location of buildings and structures at 50 Bridge Street (Sheet 1)
 - Plan showing location of buildings and structures at 50 Bridge Street (Sheet 2)
- The proposed master plan has been based on solar access envelopes described in the 'Solar Impact Report' by PSN Matter (12/09/2011)

The shadow studies contained within this report are accurate to the implied limits of the supplied base information. HASSELL does not accept responsibility for the accuracy of this base information.

Executive Summary

By adopting a precinct-wide approach to the redistribution of floor space the master plan seeks to transfer the unrealised floor space from the Young and Loftus block to the Bridge and Alfred block.

The lower scaled Young and Loftus buildings will provide an increase in morning sunlight to Macquarie Place in mid winter, with the transferred floor space being accommodated within an extension to the 50 Bridge Street tower which whilst projecting through the Botanic Gardens sun access plane does so in a way that ensures no additional overshadowing to the Botanic Gardens at the control time of 2pm on 21st June.

A summary of the shadow and sun access analysis is as follows:

First Government House Place

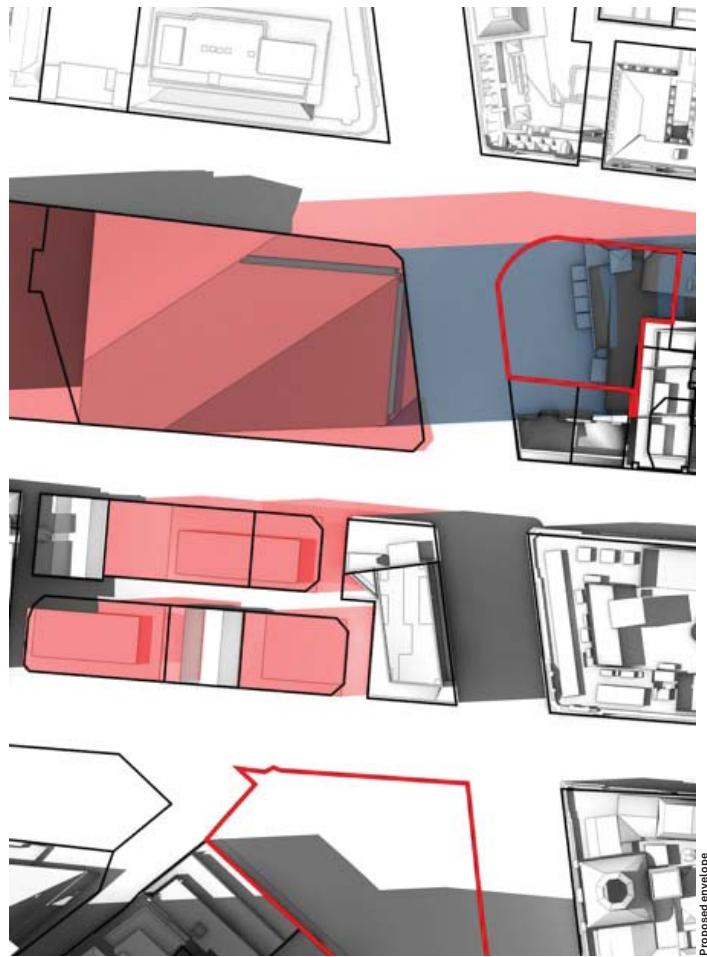
- No additional overshadowing of First Government House place.
- A modest net increase in solar access in mid winter has been achieved by offsetting a small (20 m²) additional shadow at 12pm with a (30 m²) improvement in solar access at 2pm.
- See appendix A for detailed study.

14 April

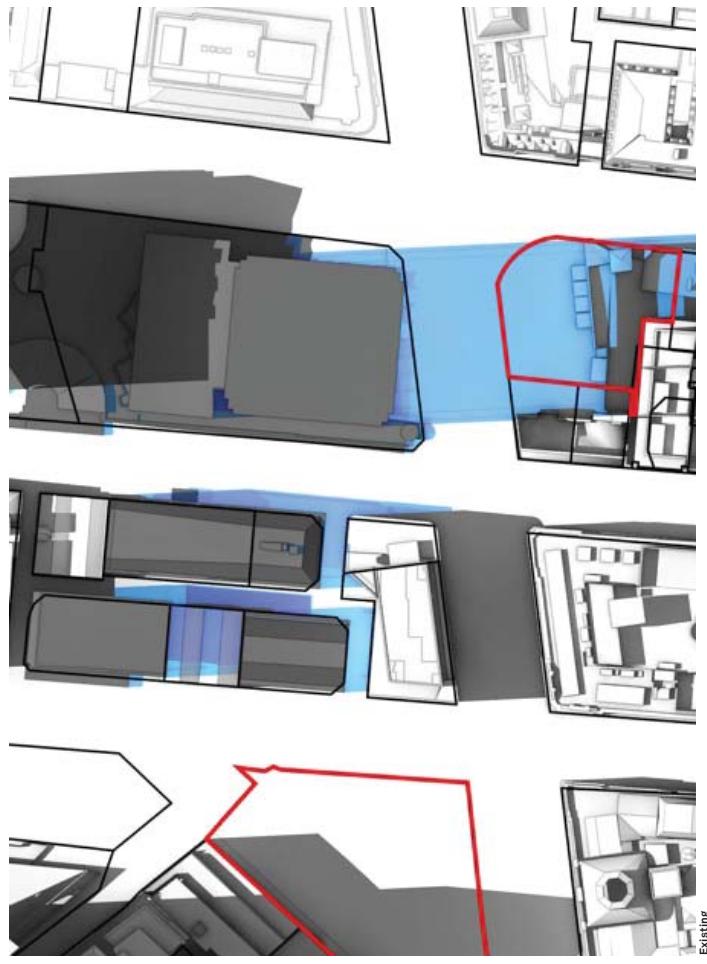
Shadow and Sun Access Study

11

First Government House Place



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Date 14 April
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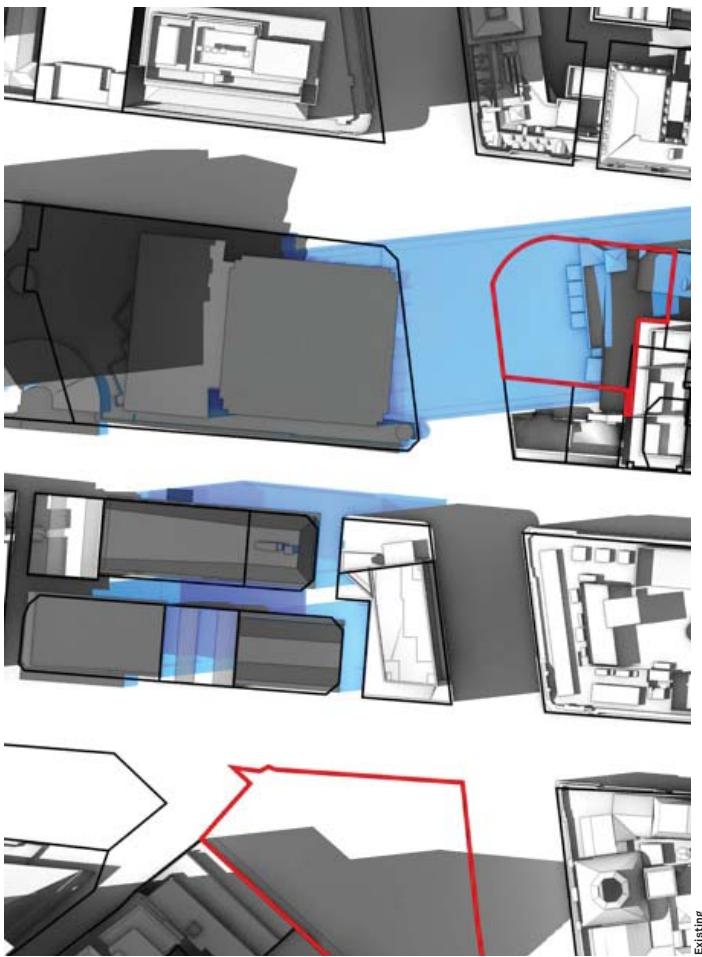


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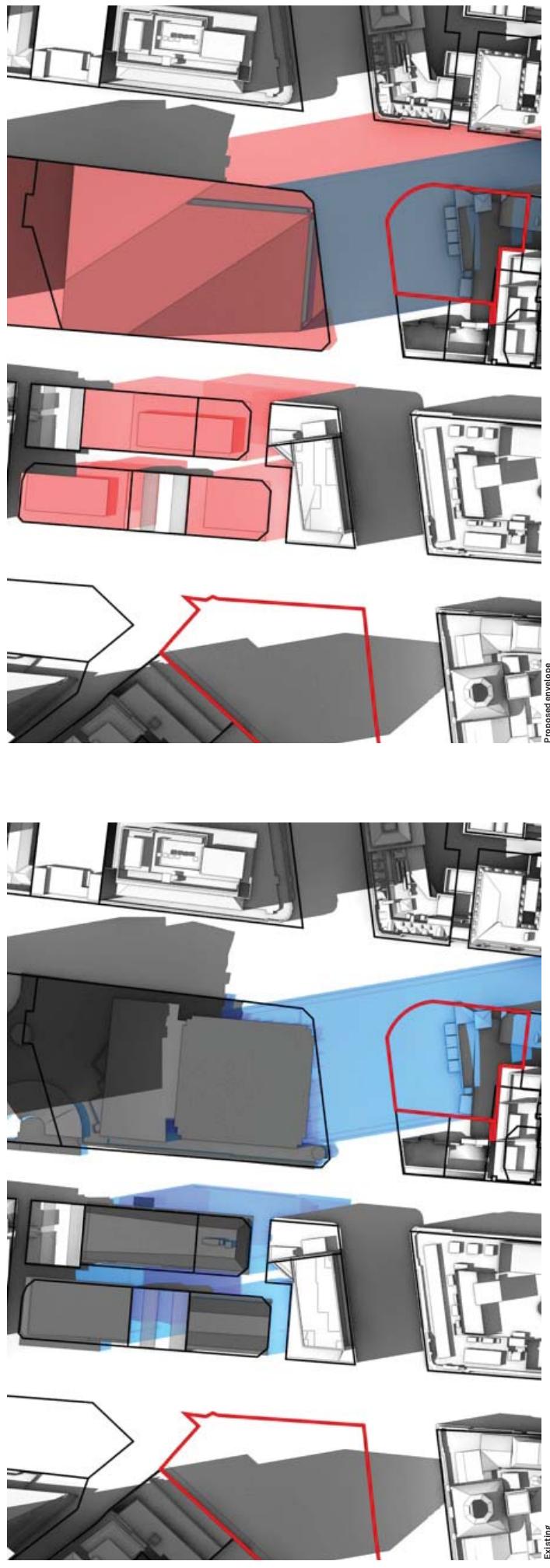


First Government House Place

Shadow and Sun Access Study

13

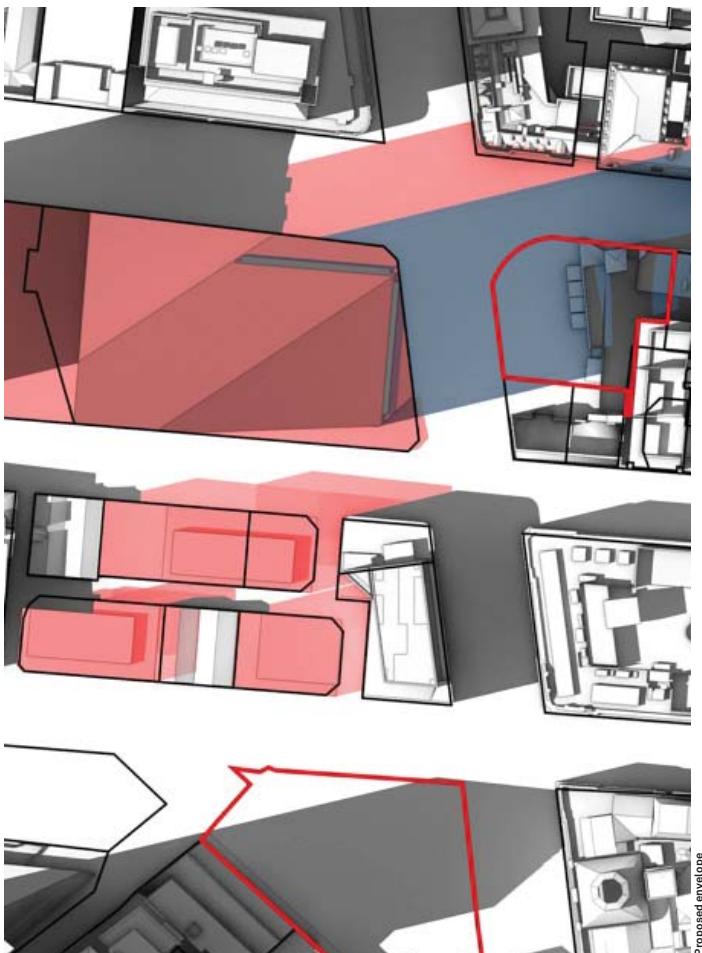
First Government House Place



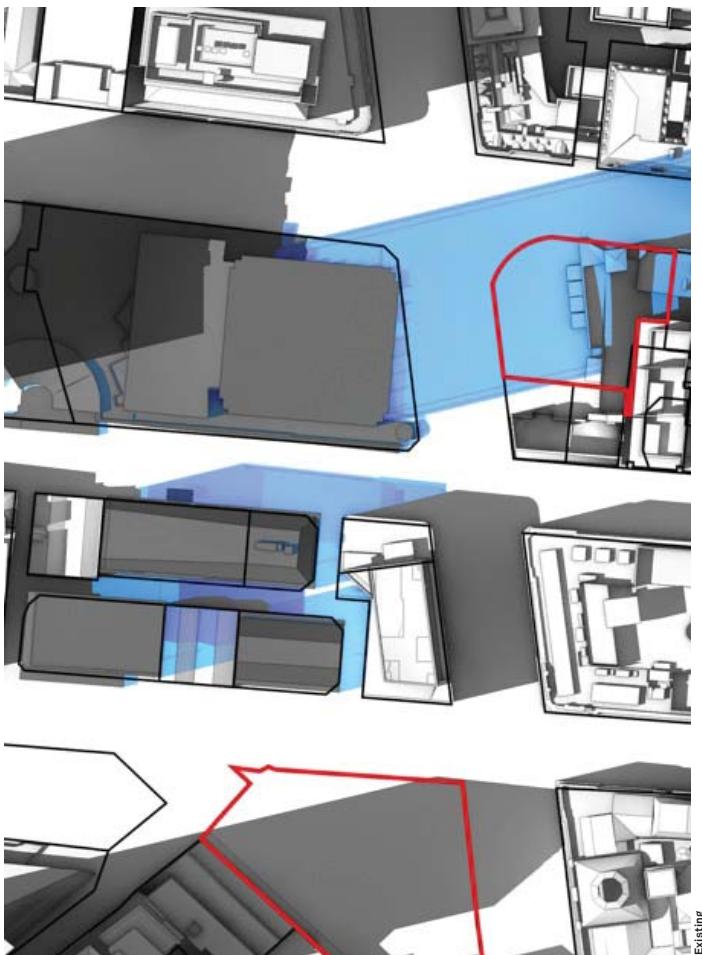
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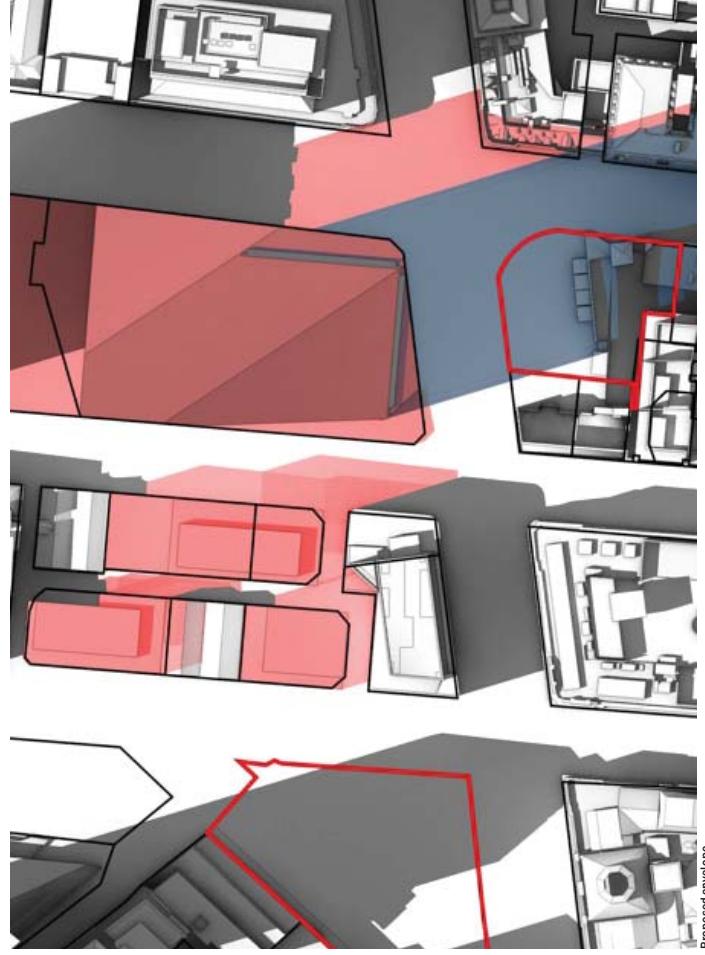
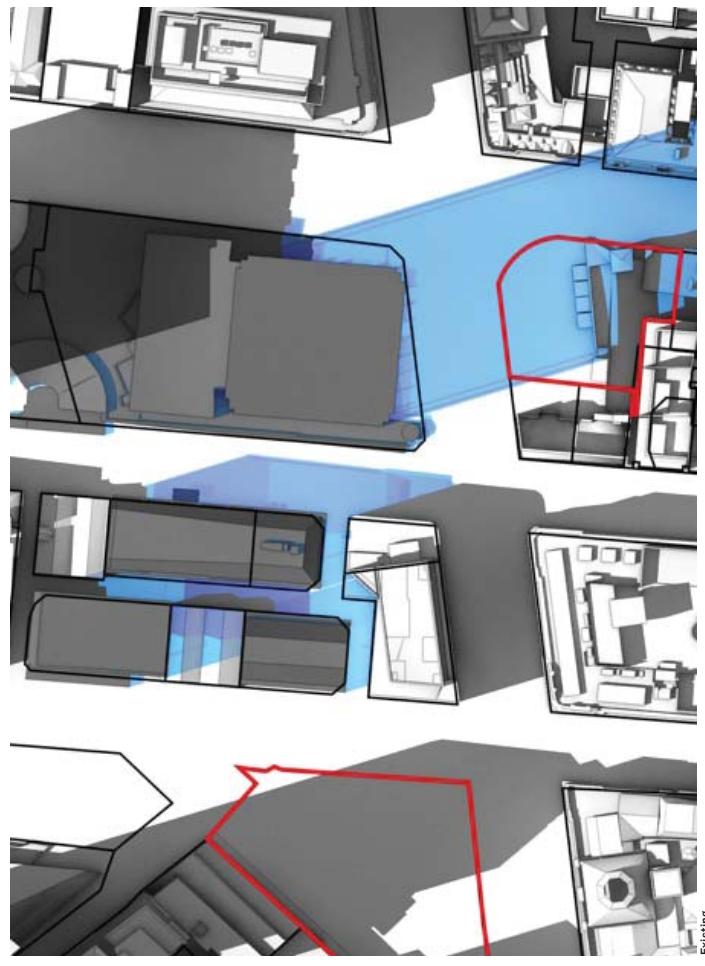
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First Government House Place

Shadow and Sun Access Study

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First Government House Place

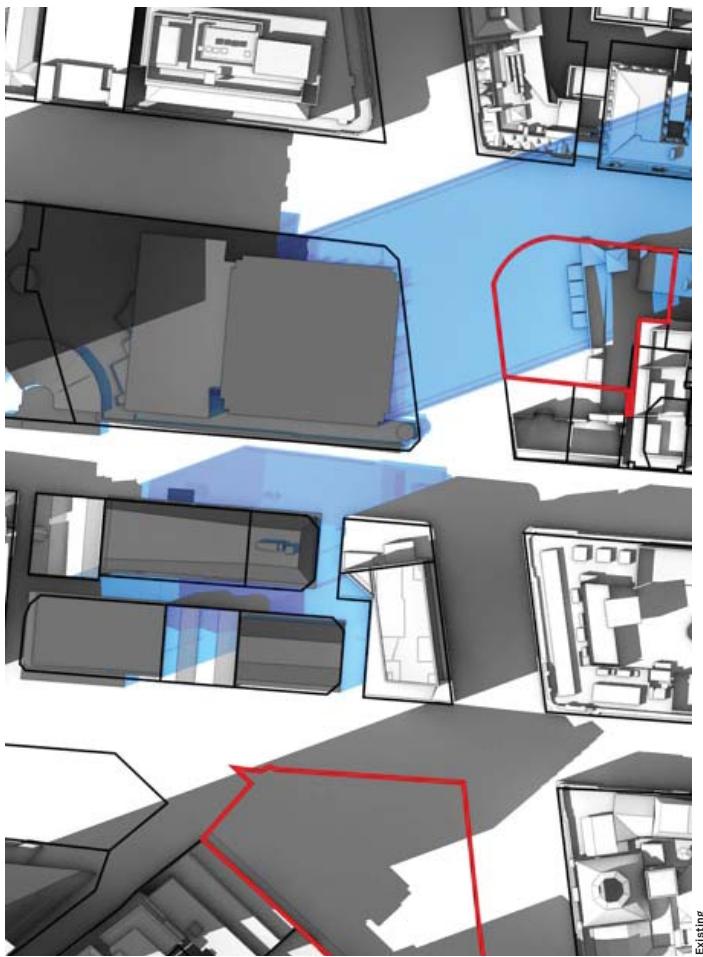


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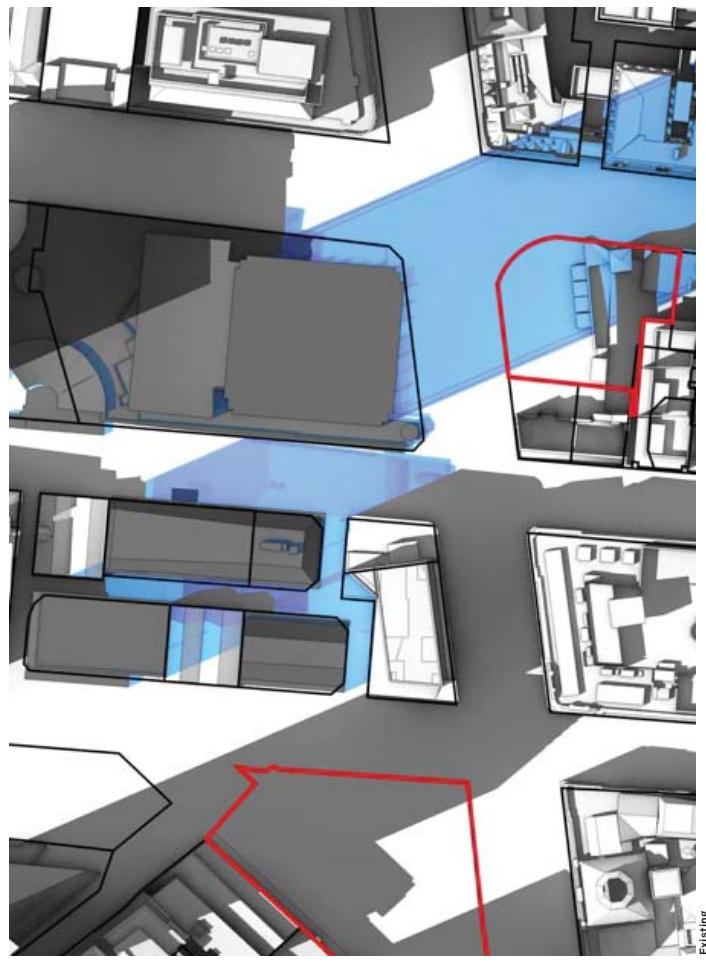
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First Government House Place

Shadow and Sun Access Study

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First Government House Place



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Proposed envelope

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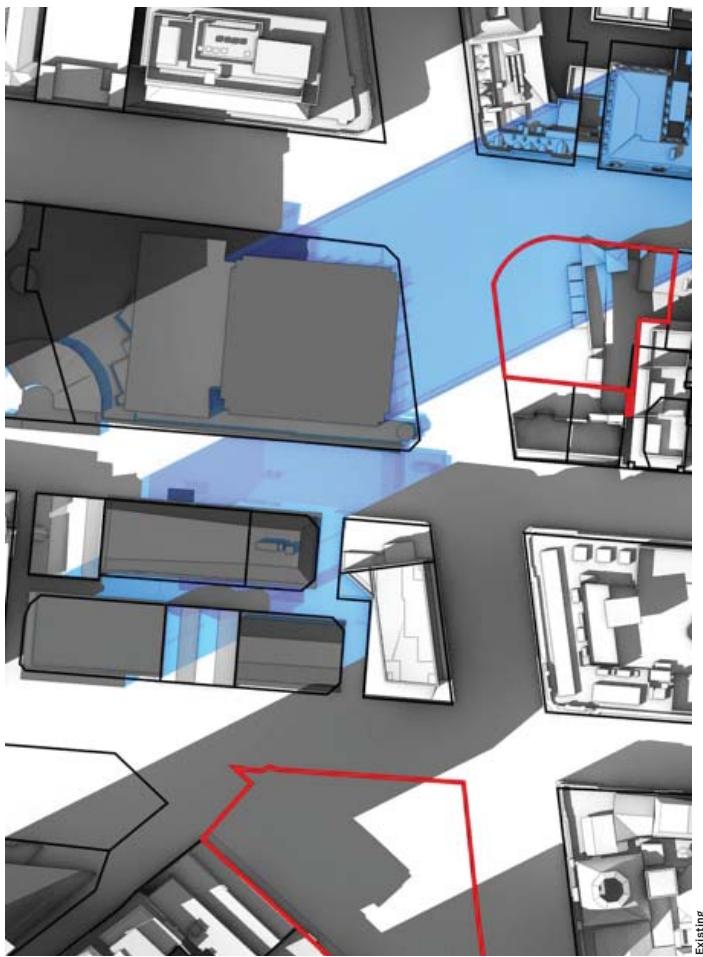
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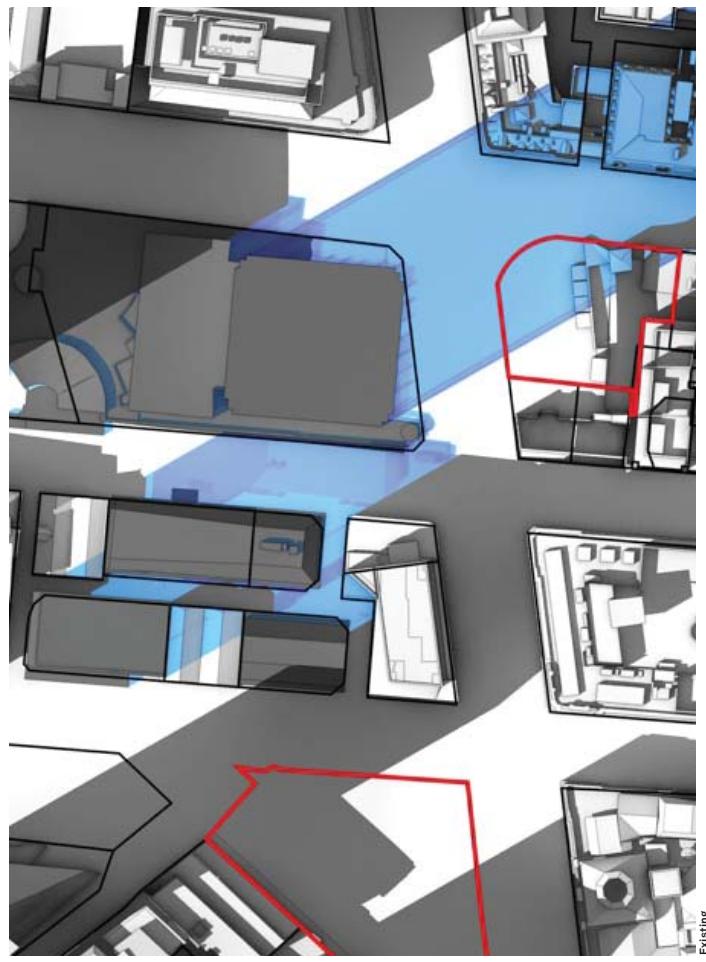
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First Government House Place

Shadow and Sun Access Study

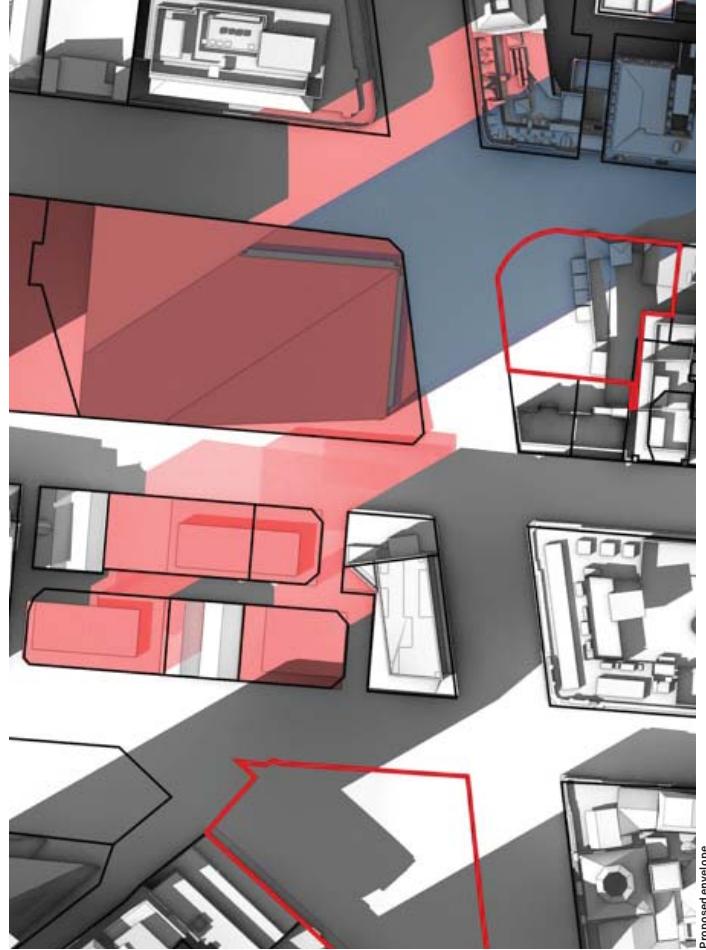
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First Government House Place



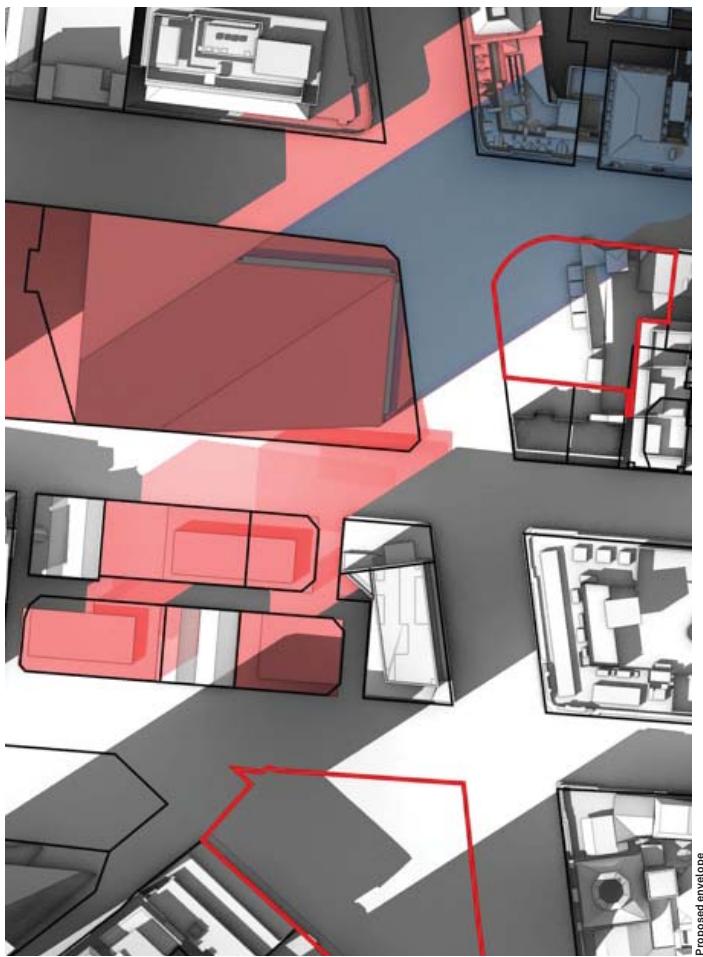
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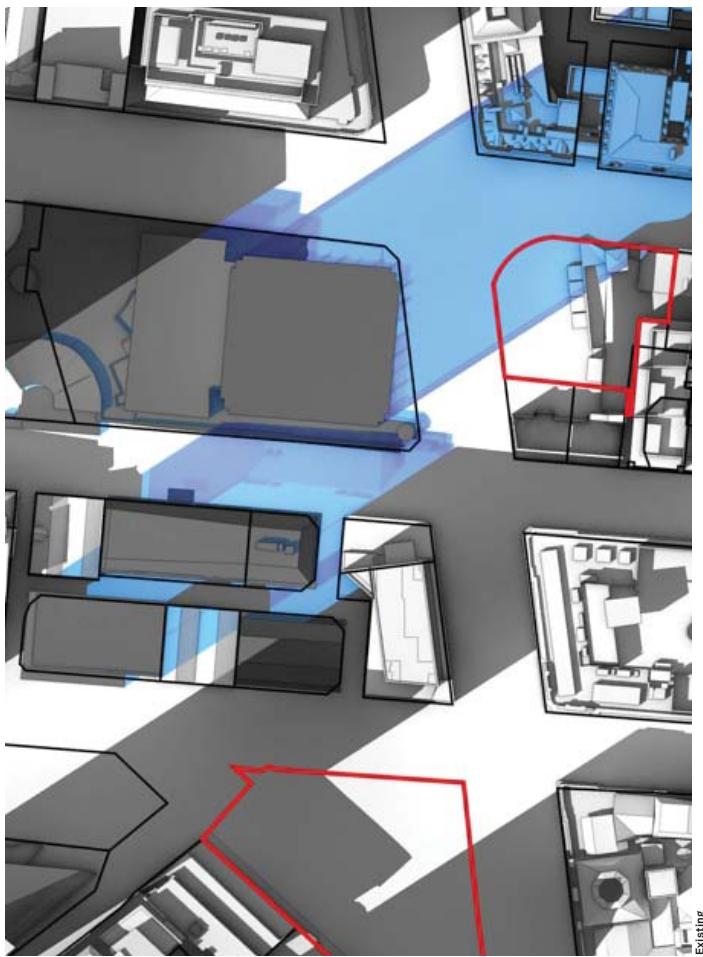


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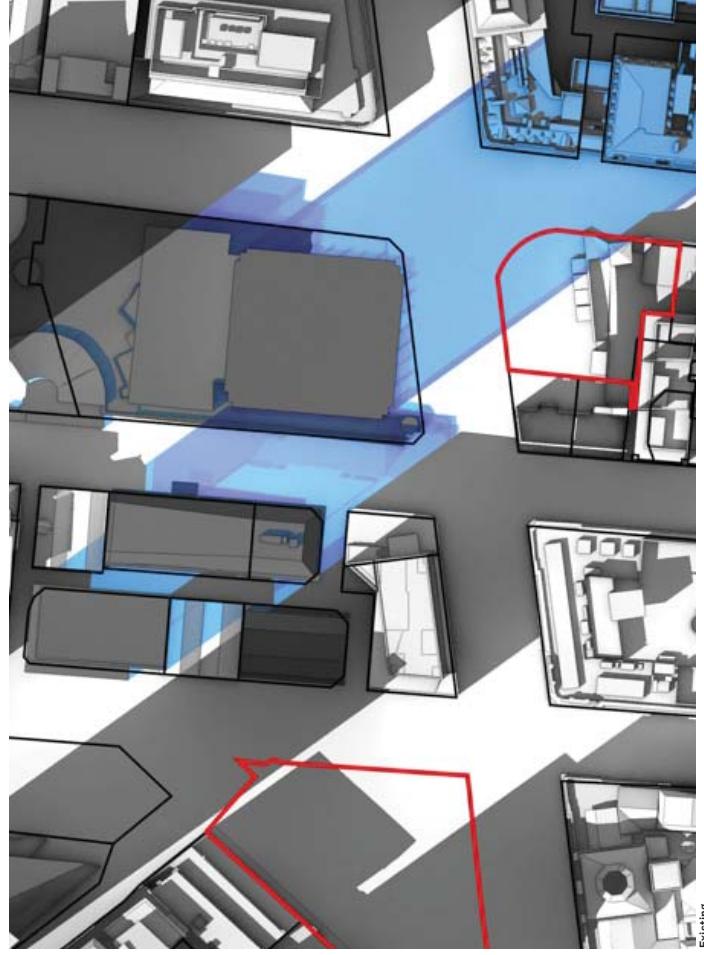
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First Government House Place

Shadow and Sun Access Study

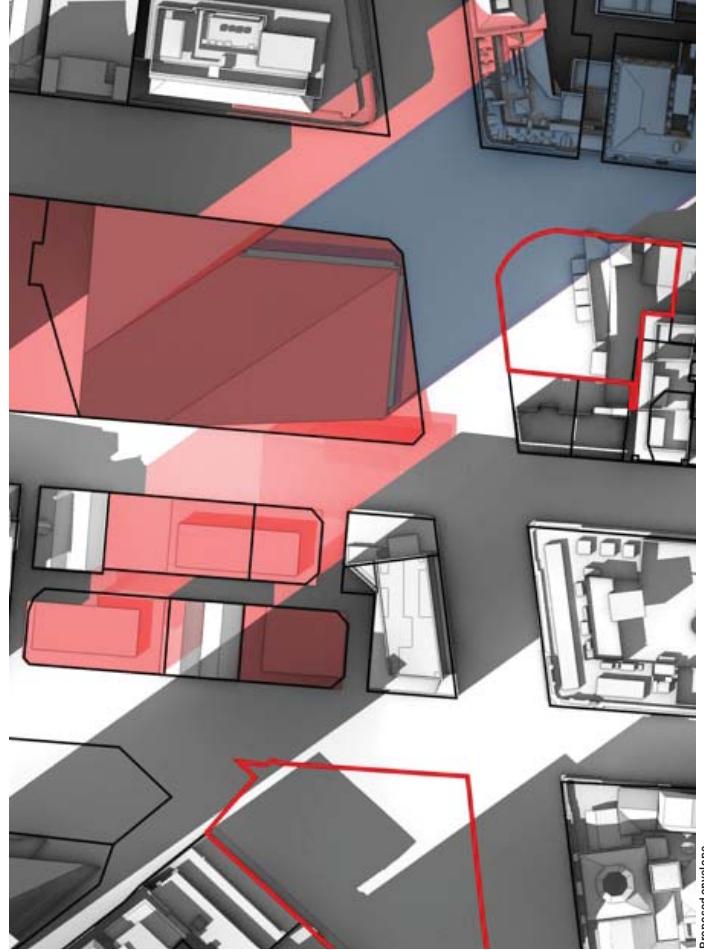
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First Government House Place



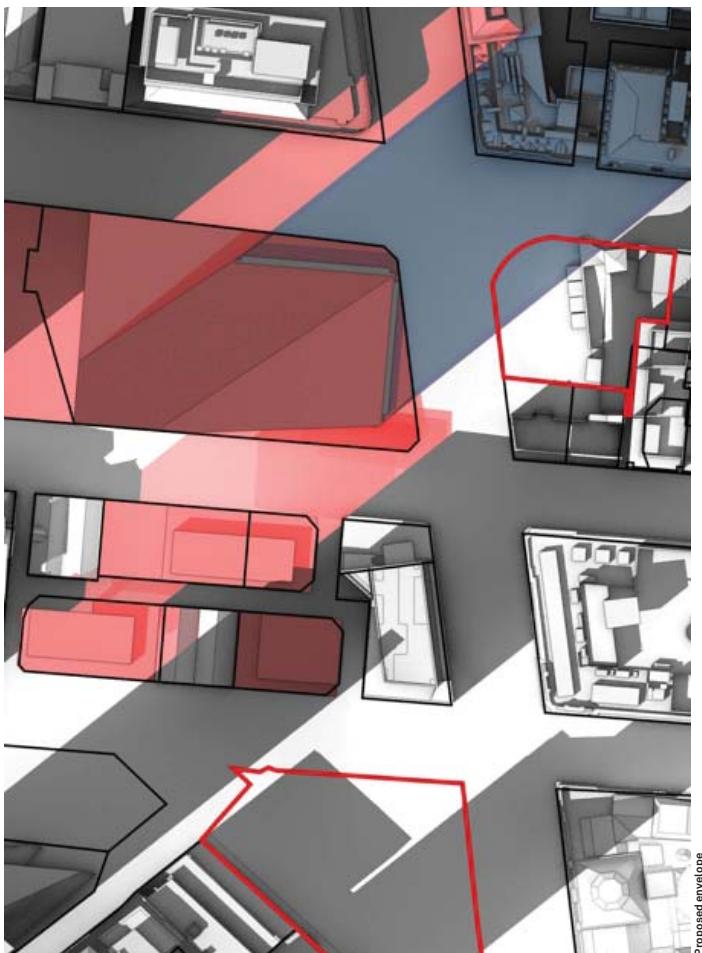
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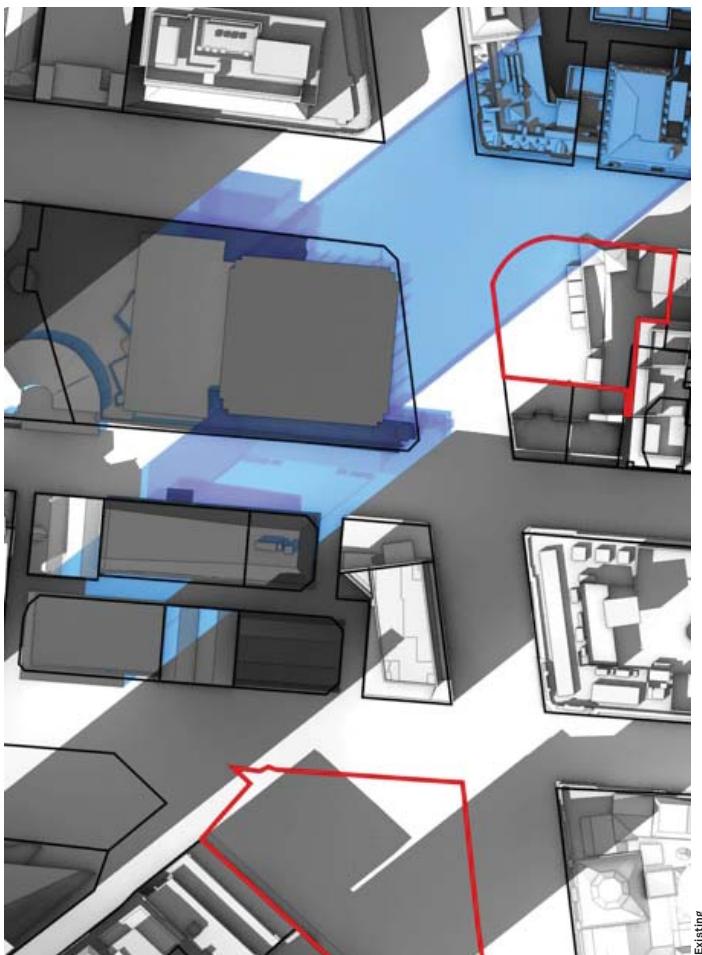


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First Government House Place

Shadow and Sun Access Study

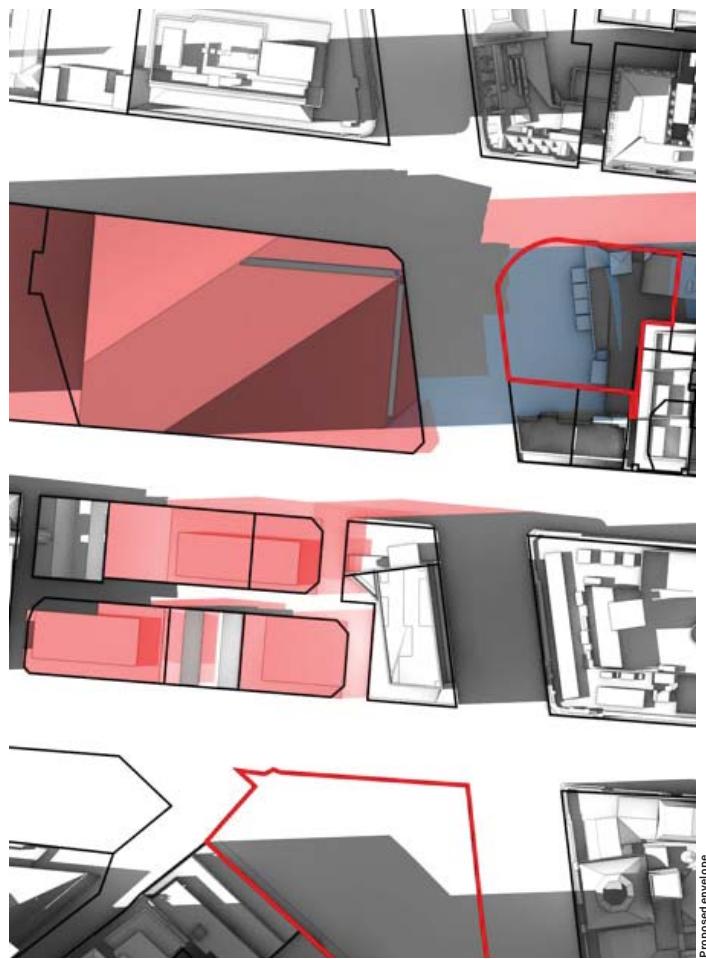
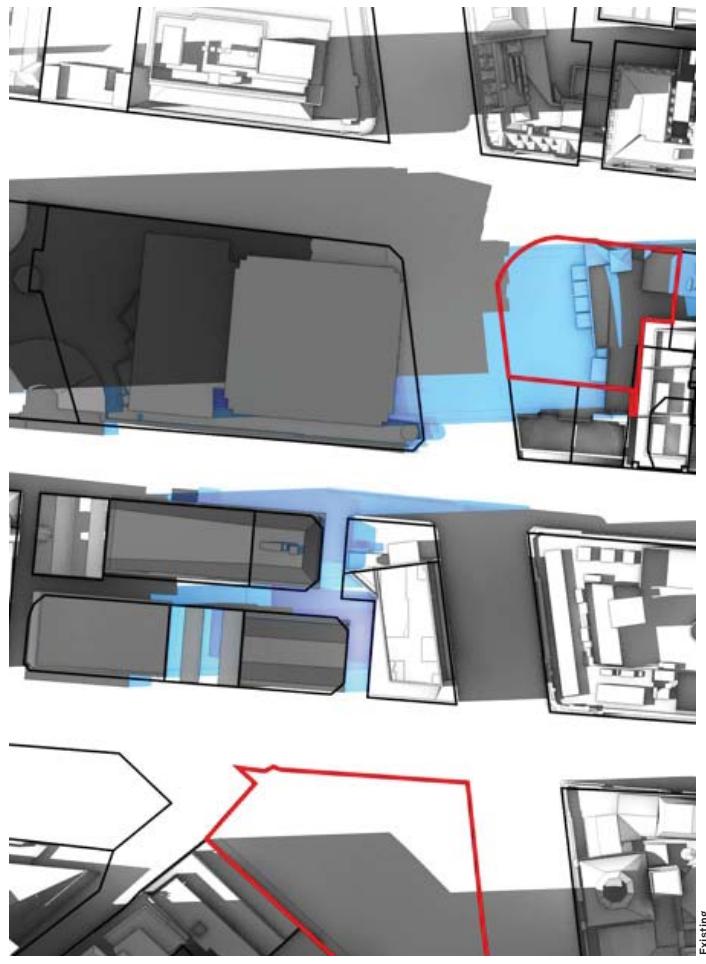
First Government House Place



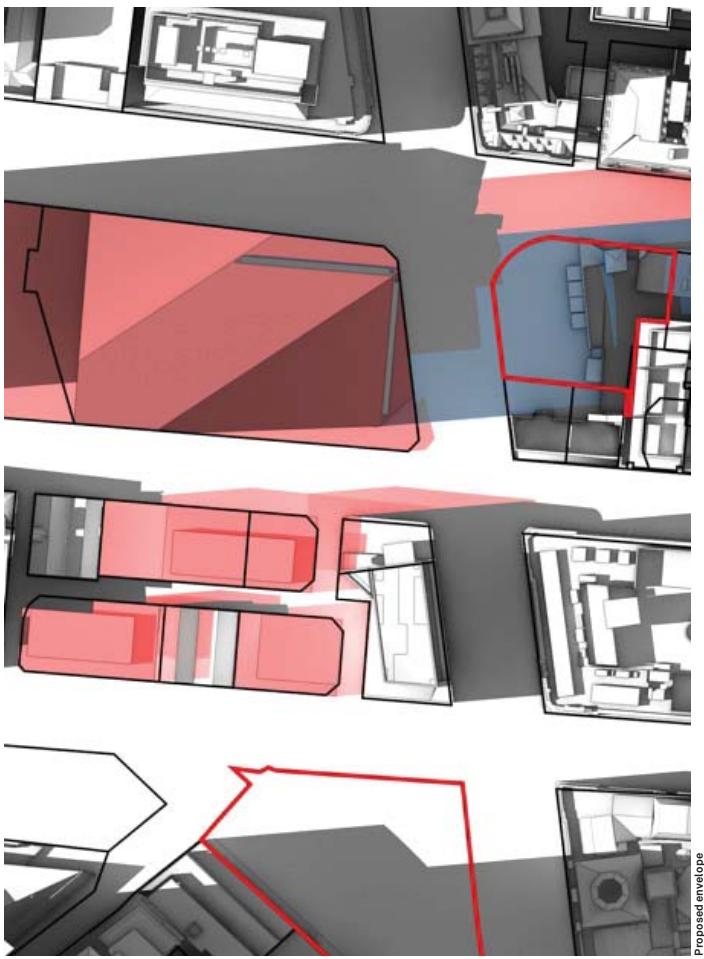
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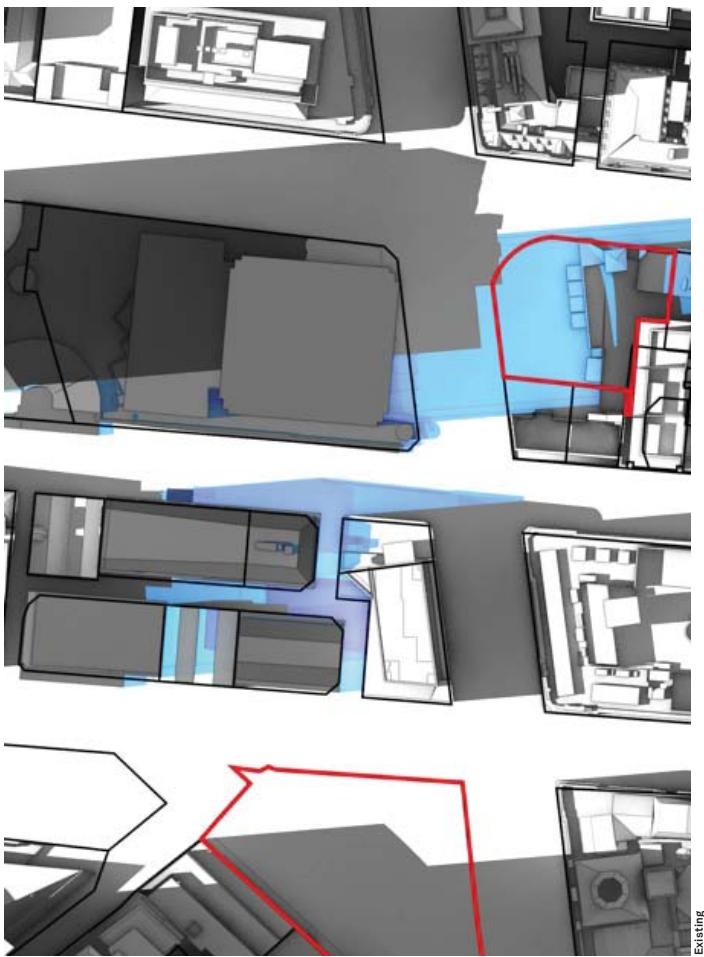
First Government House Place



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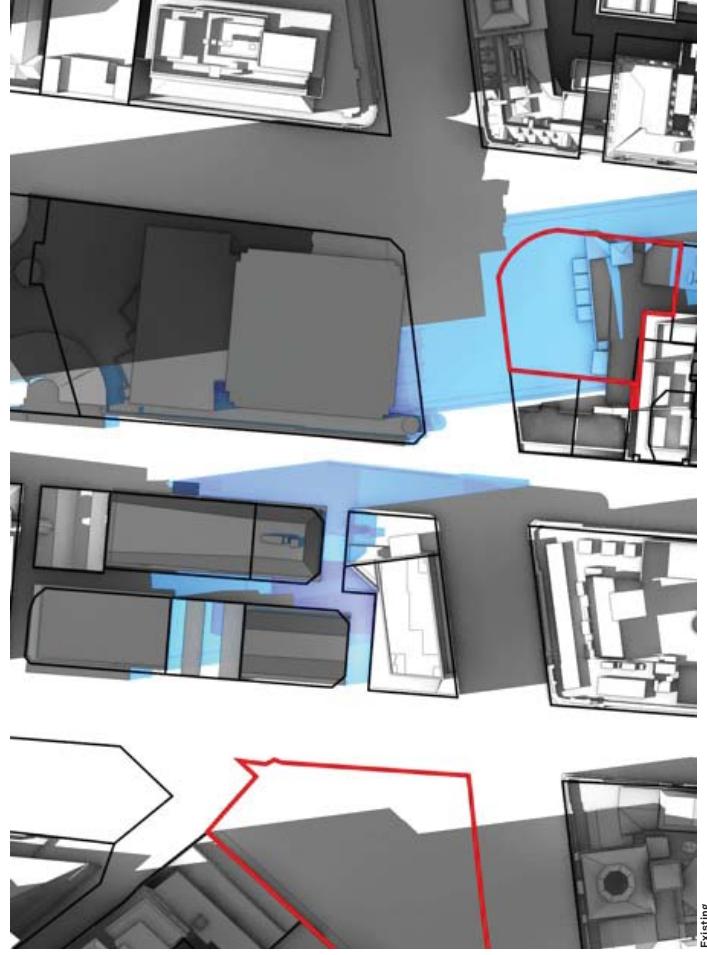
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First Government House Place

Shadow and Sun Access Study

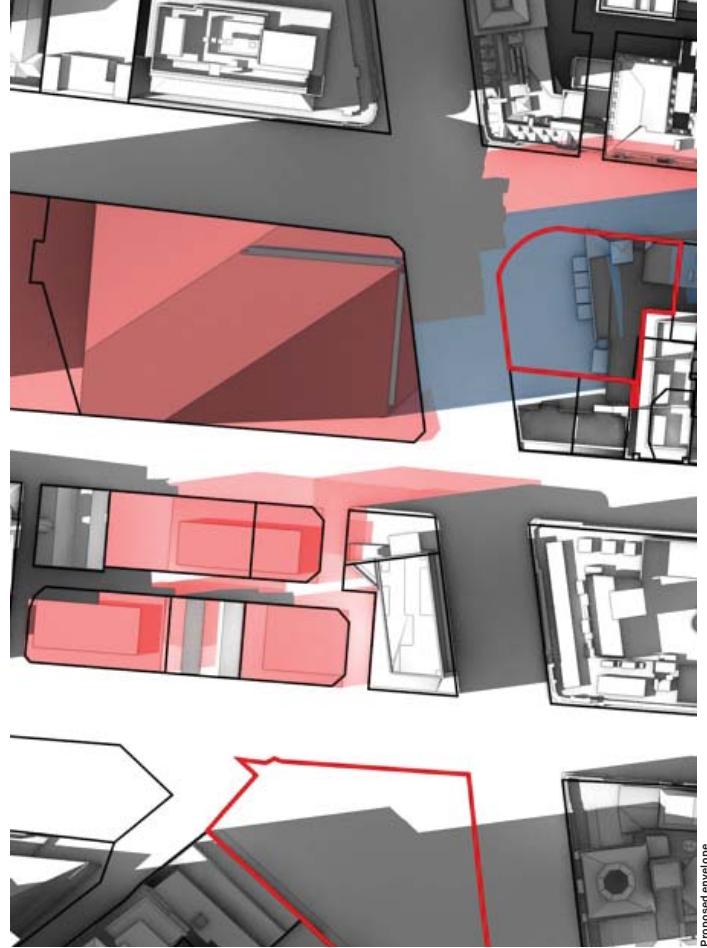
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First Government House Place



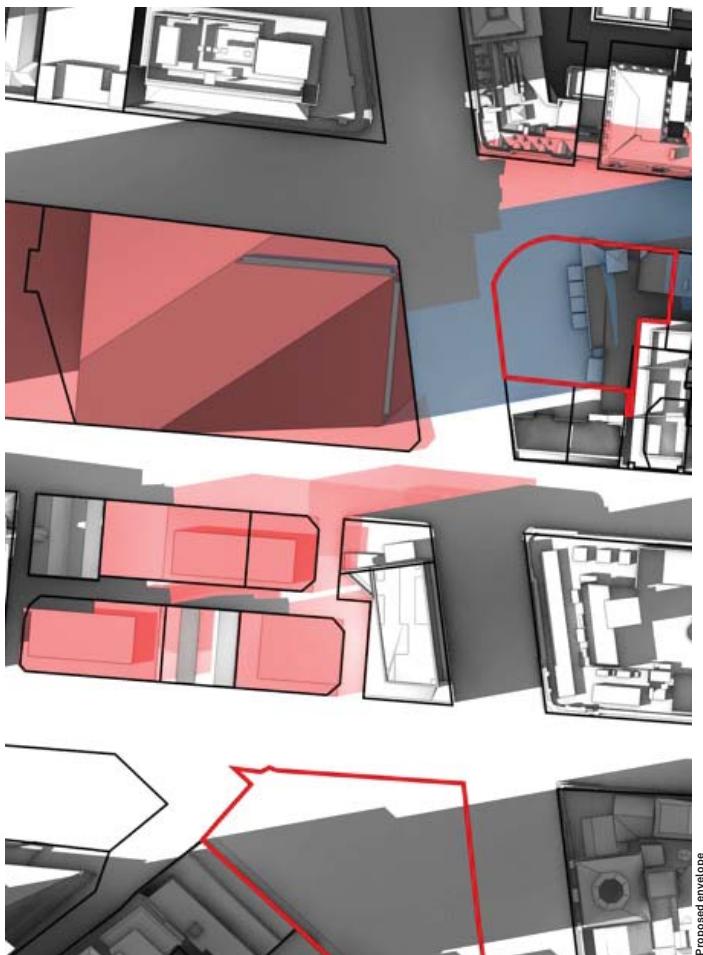
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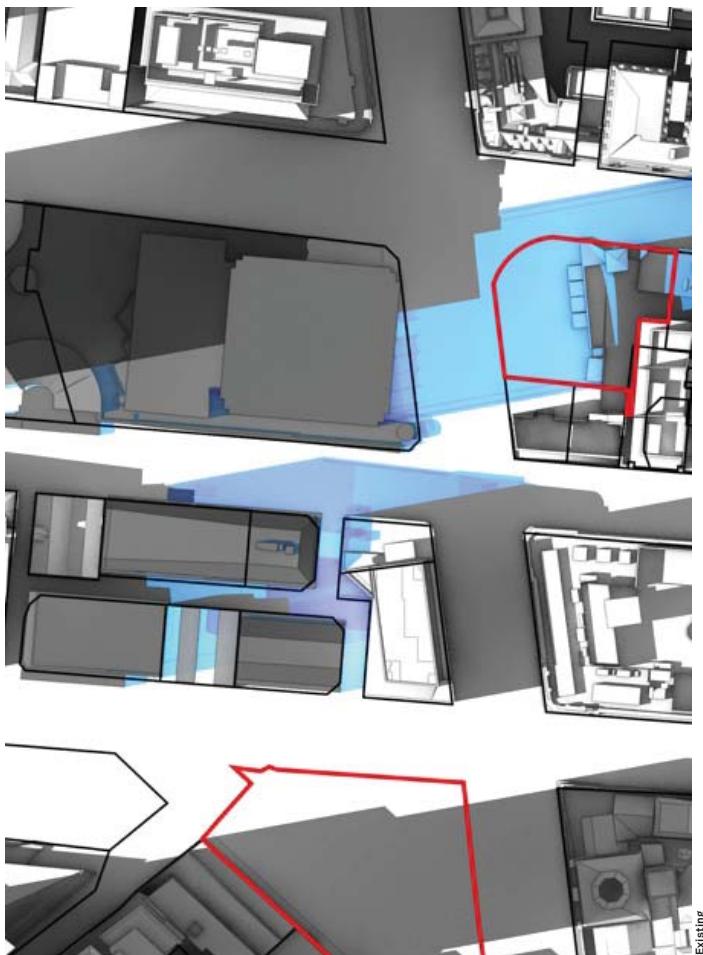


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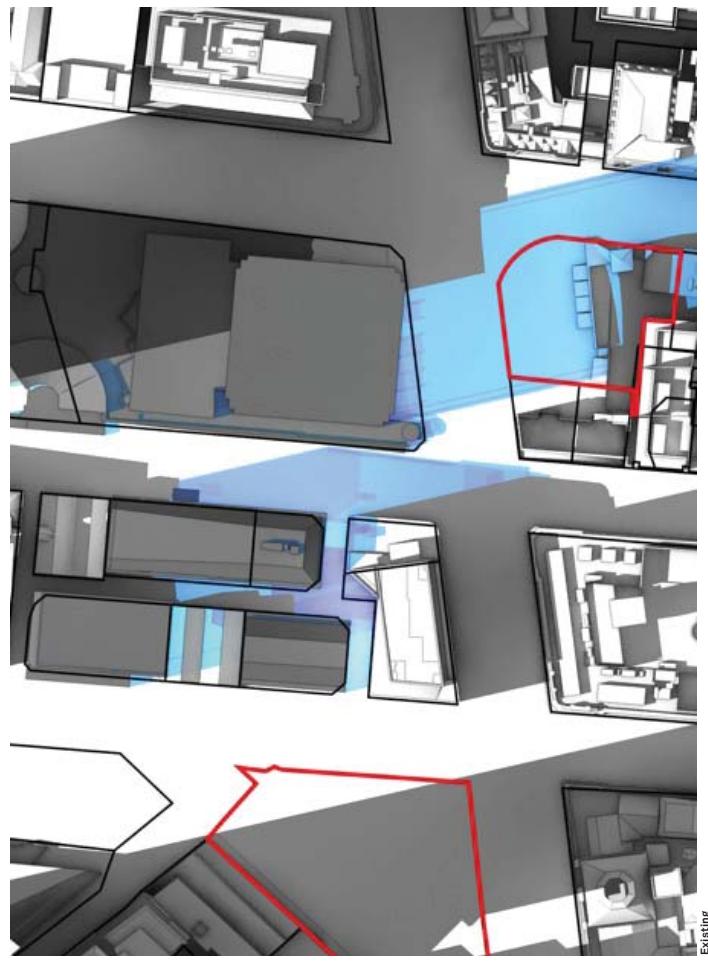
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First Government House Place

Shadow and Sun Access Study

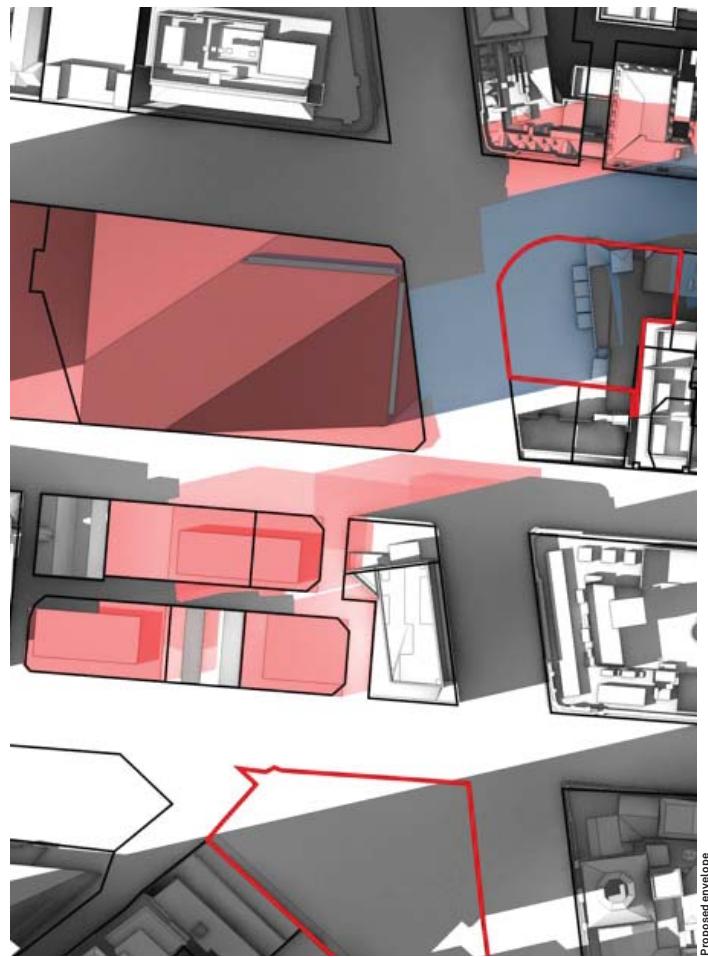
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First Government House Place



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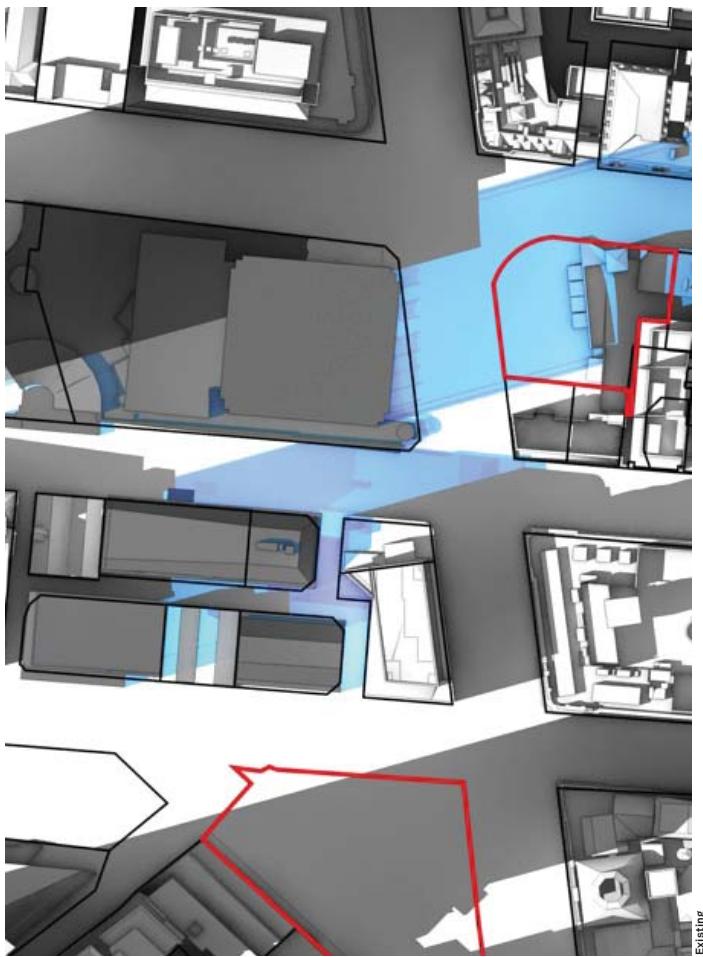
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First Government House Place

Shadow and Sun Access Study

Shadow and Sun Access Study

33

First Government House Place



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- Existing situation
- Proposed envelope

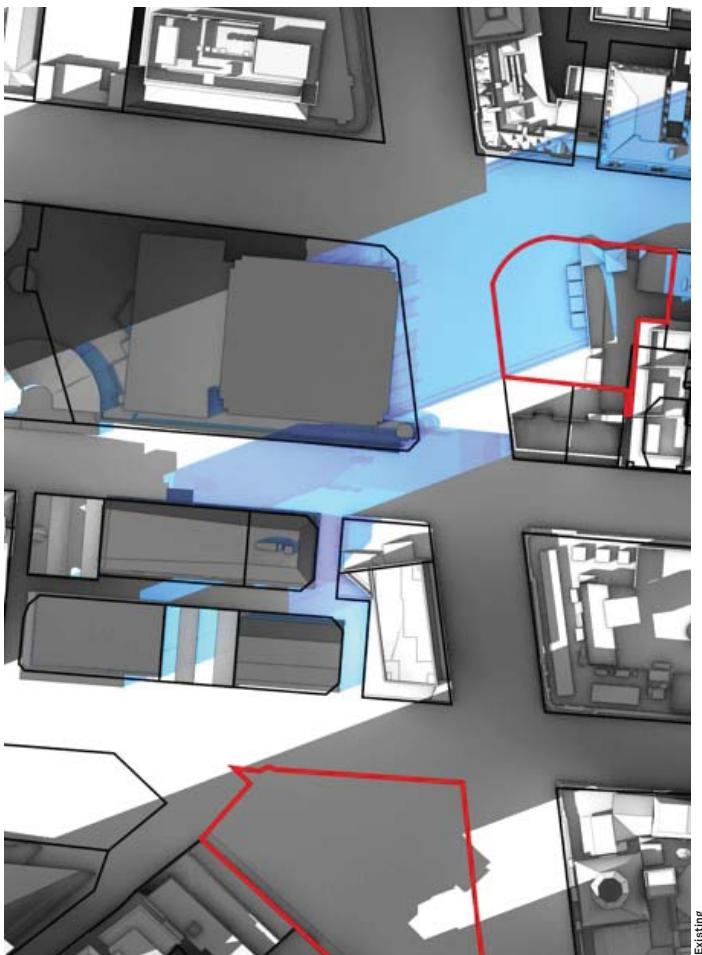


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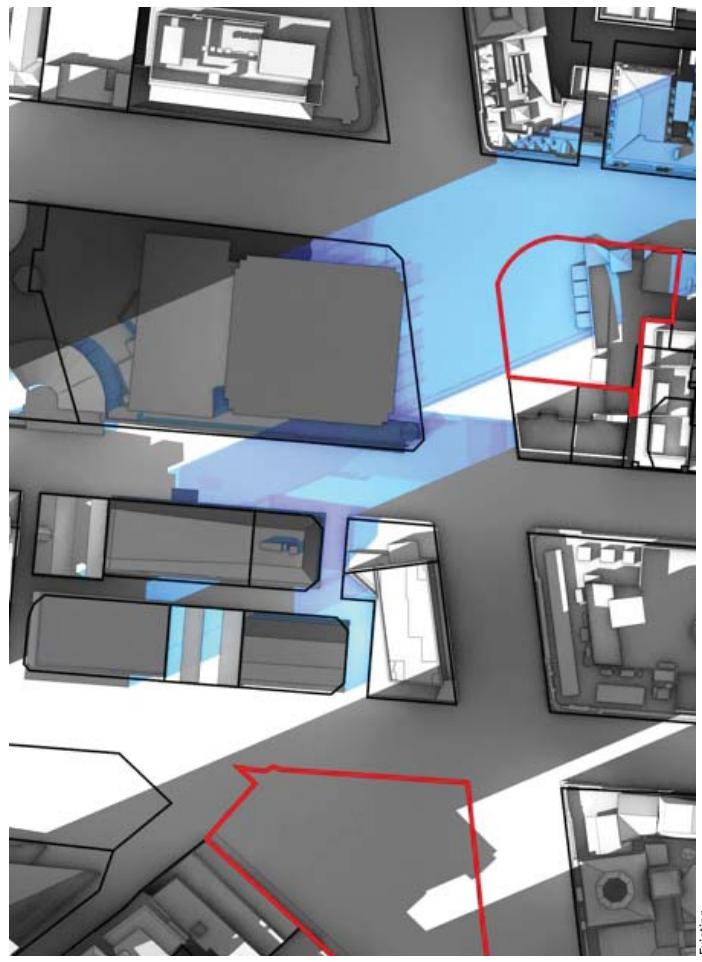
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First Government House Place

Shadow and Sun Access Study

36

First Government House Place



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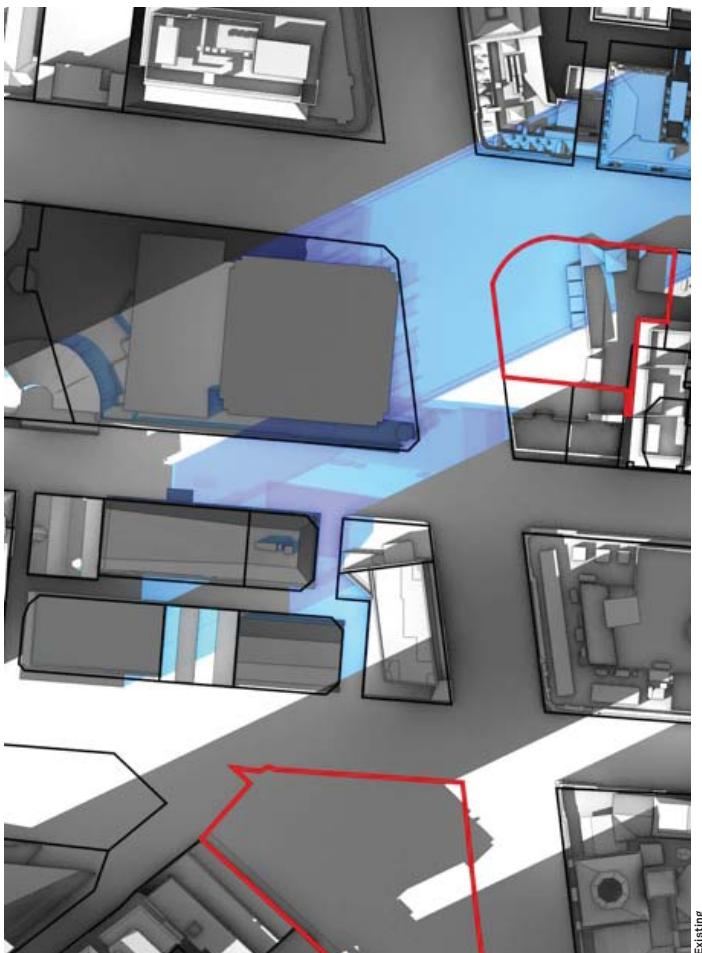


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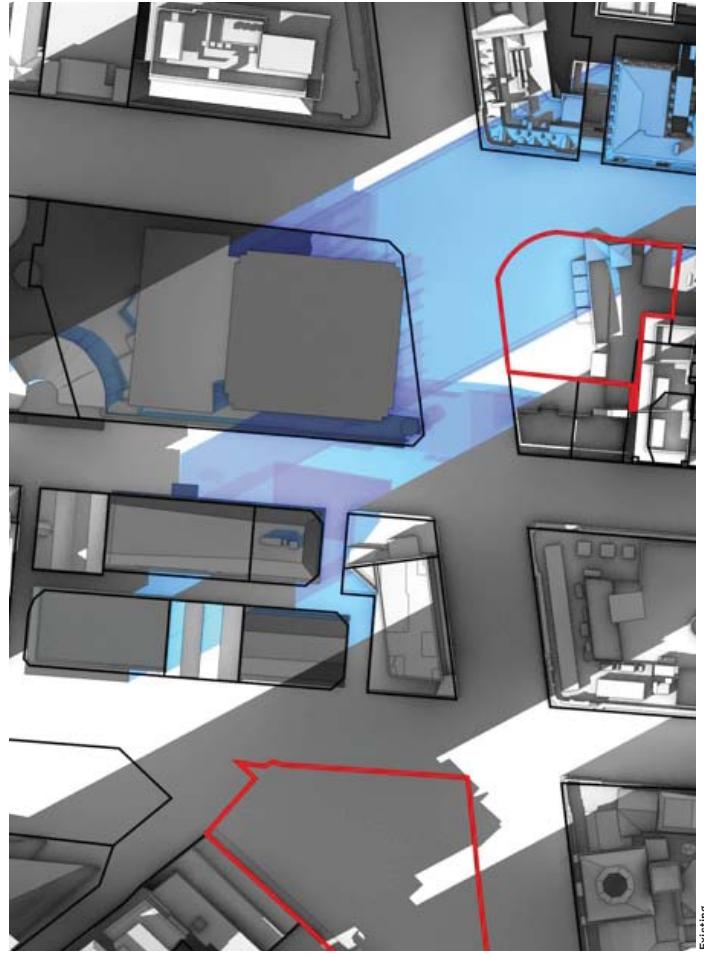
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First Government House Place

Shadow and Sun Access Study

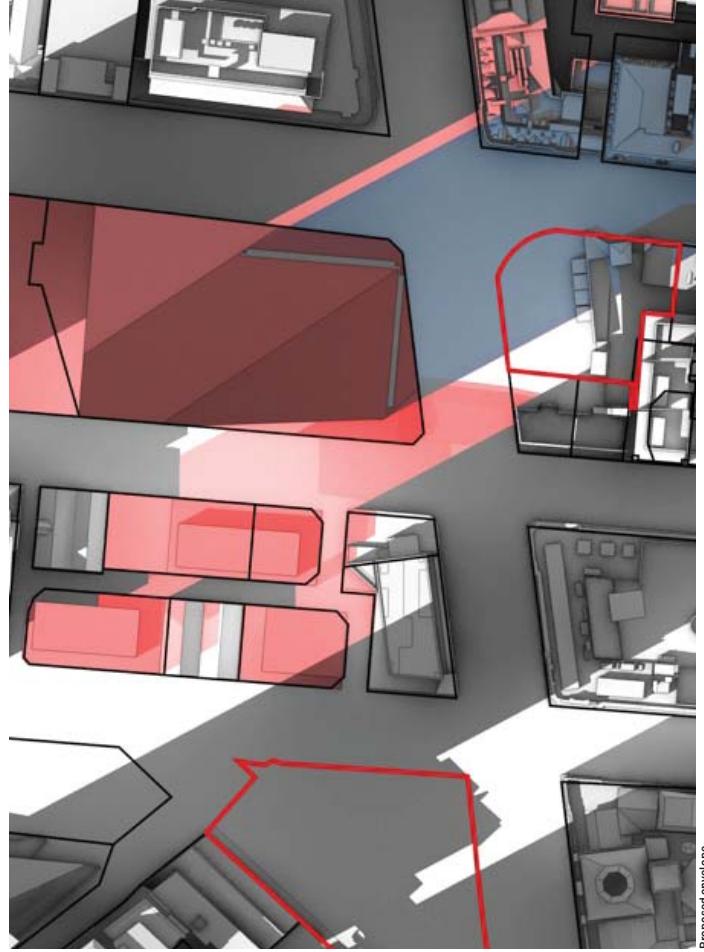
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First Government House Place



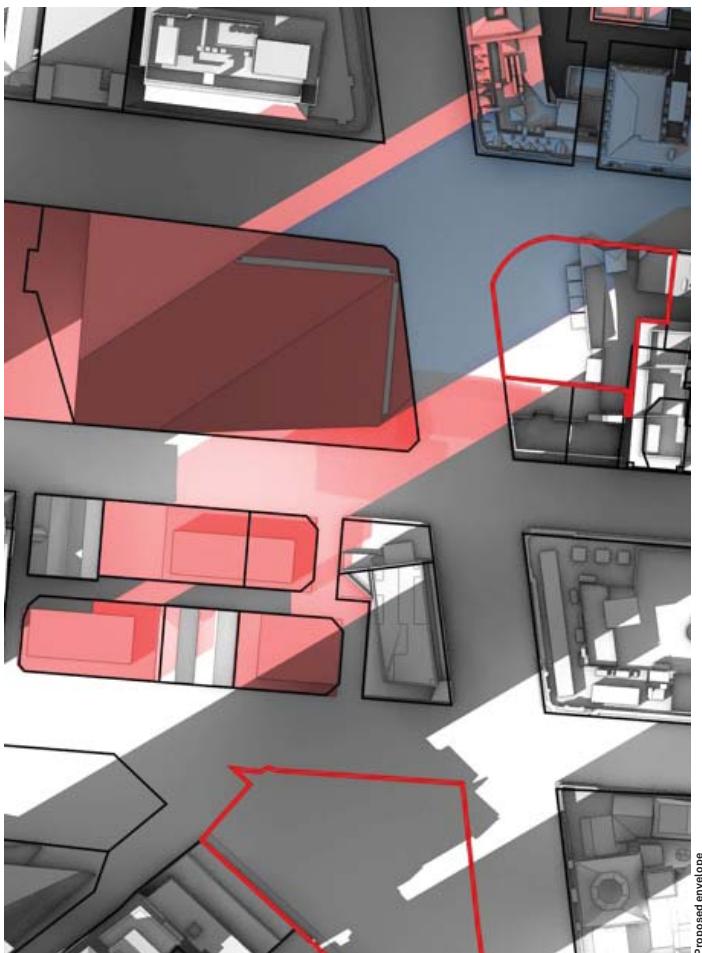
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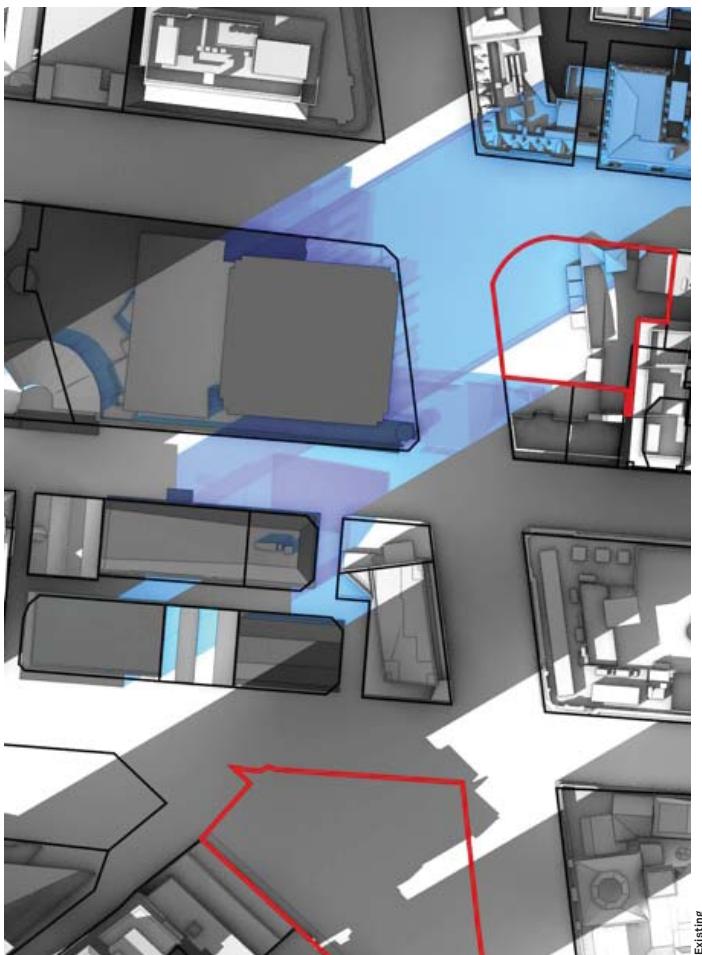
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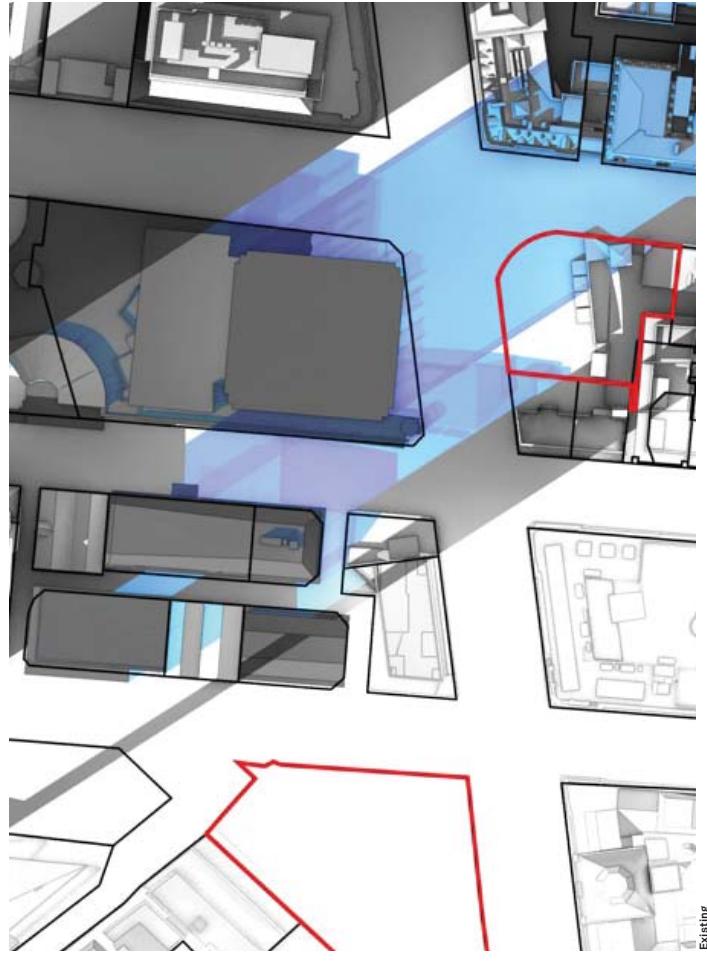
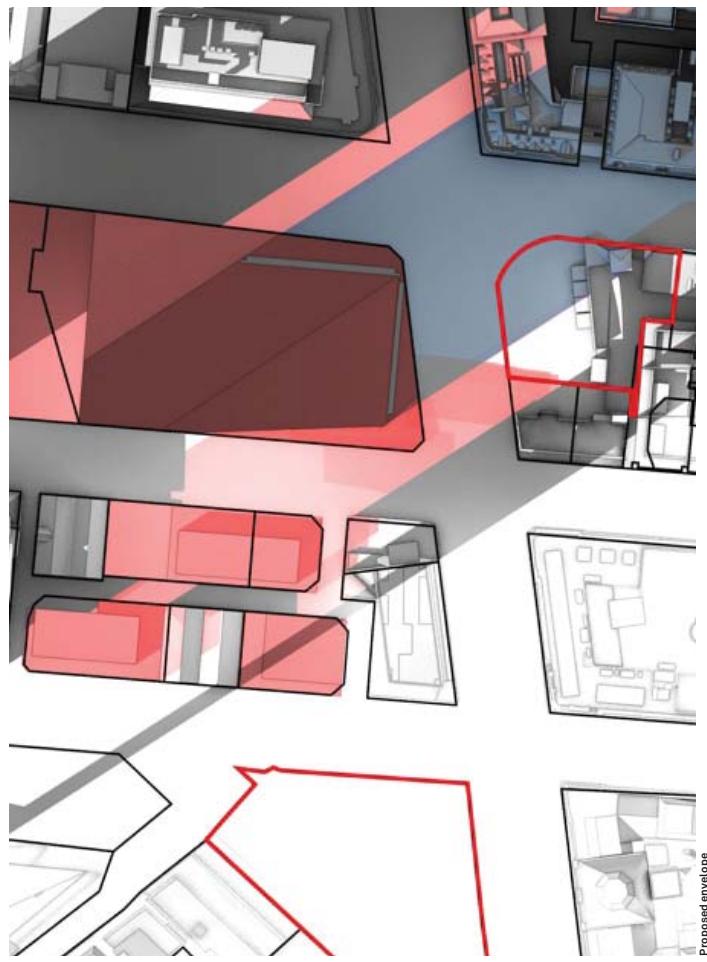


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First Government House Place

Shadow and Sun Access Study

First Government House Place



31 August

Shadow and Sun Access Study

43

First Government House Place



Legend

- Existing situation
- Proposed envelope

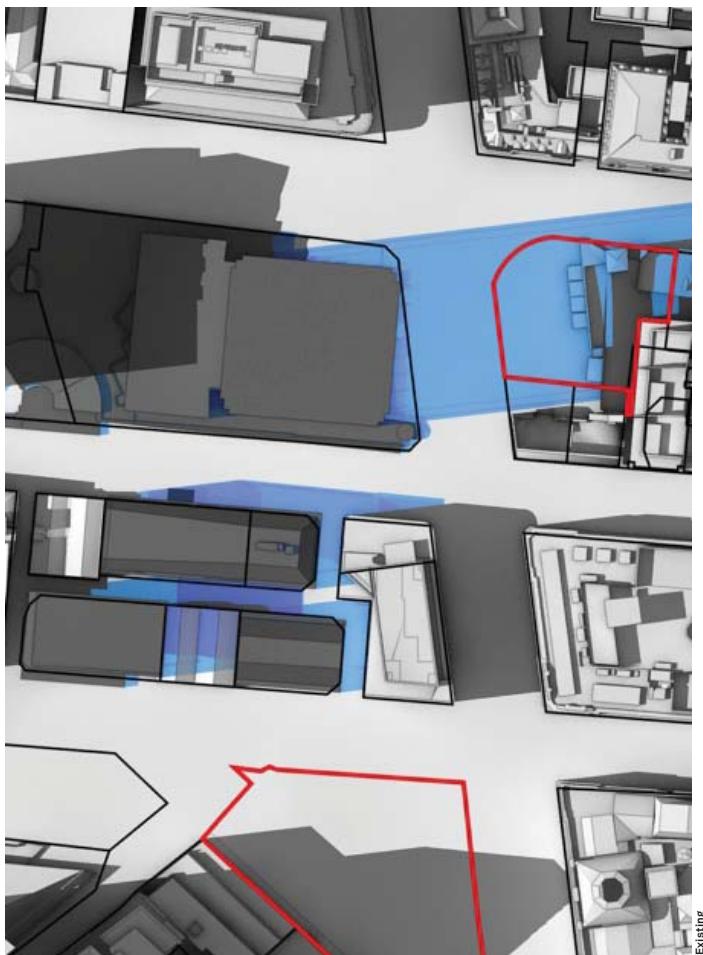


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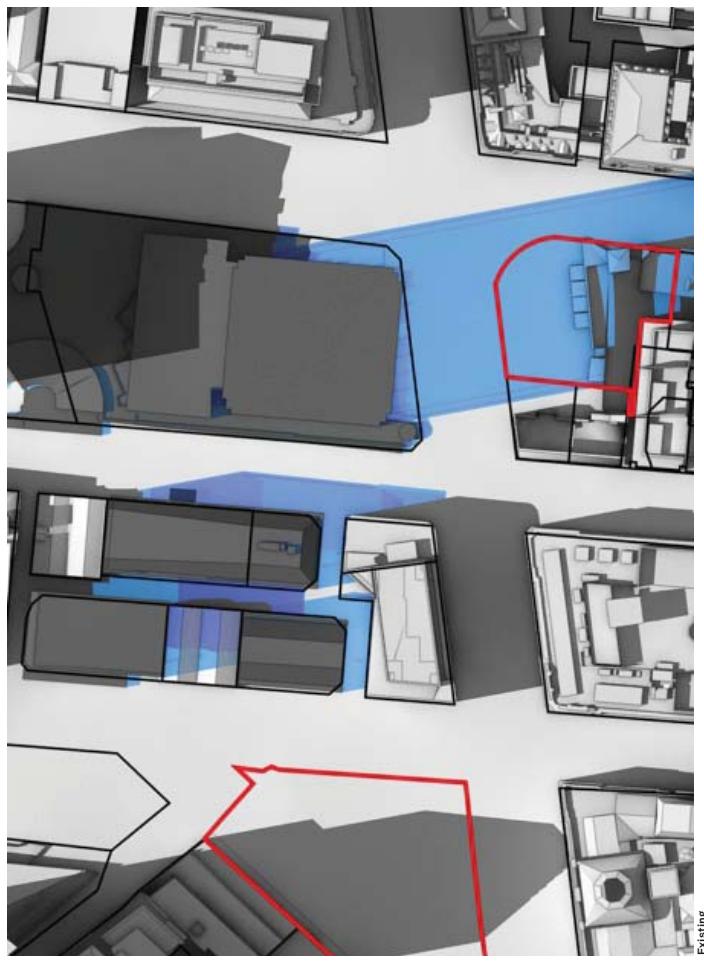
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First Government House Place

Shadow and Sun Access Study

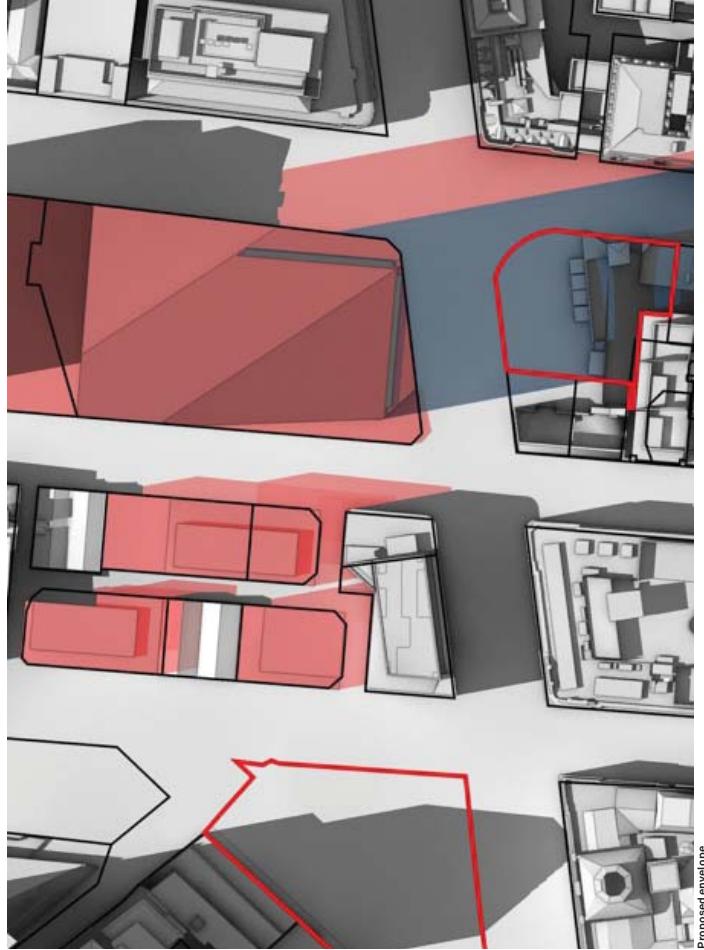
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First Government House Place



Legend

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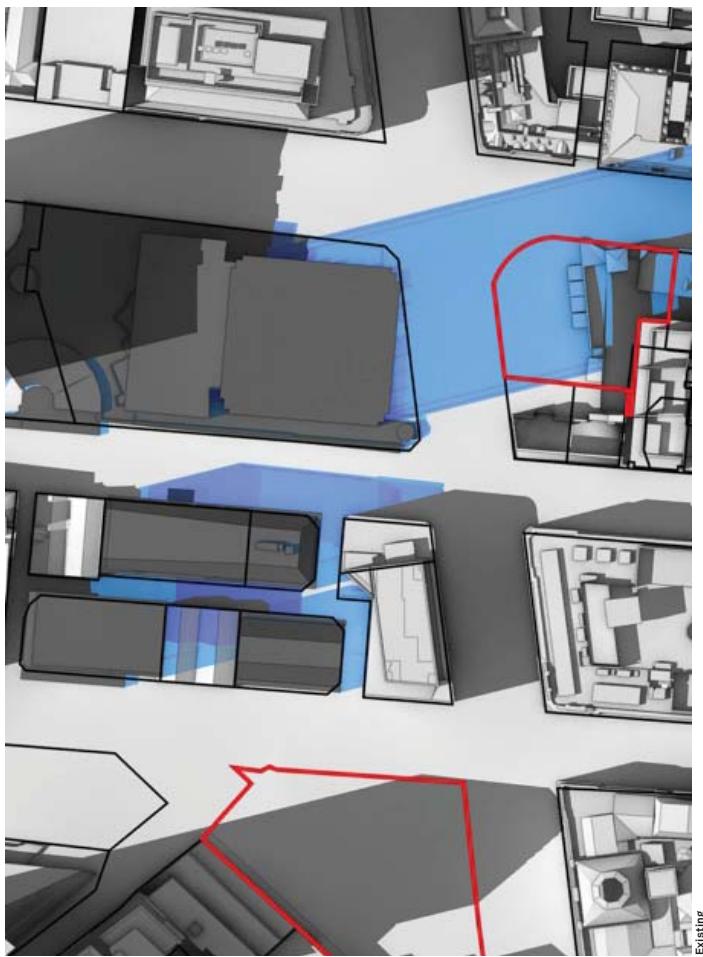


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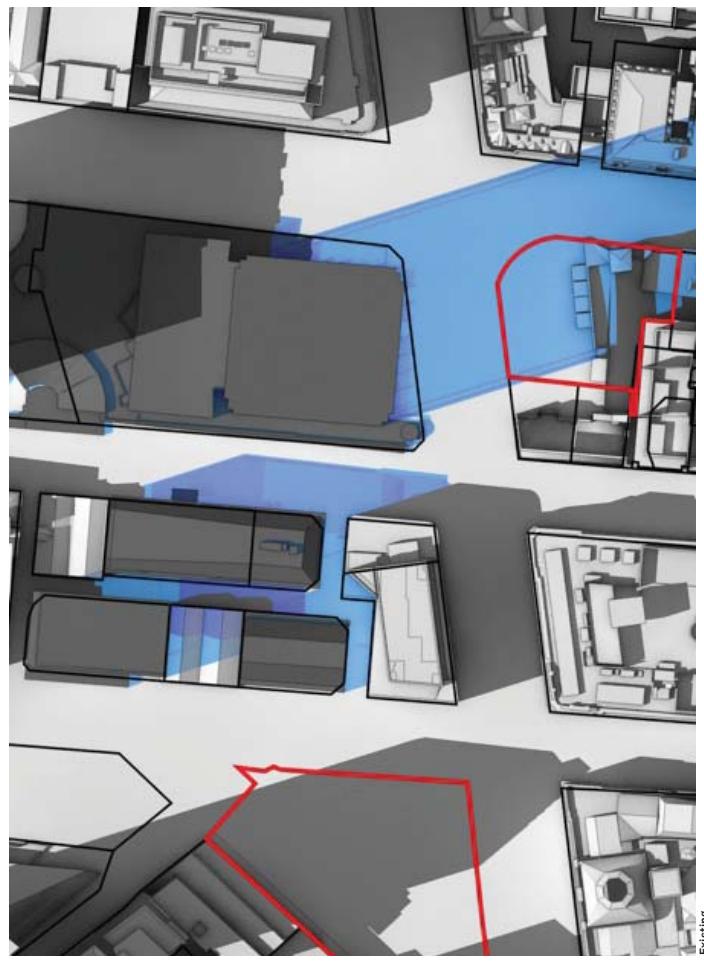
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First Government House Place

Shadow and Sun Access Study

47

First Government House Place



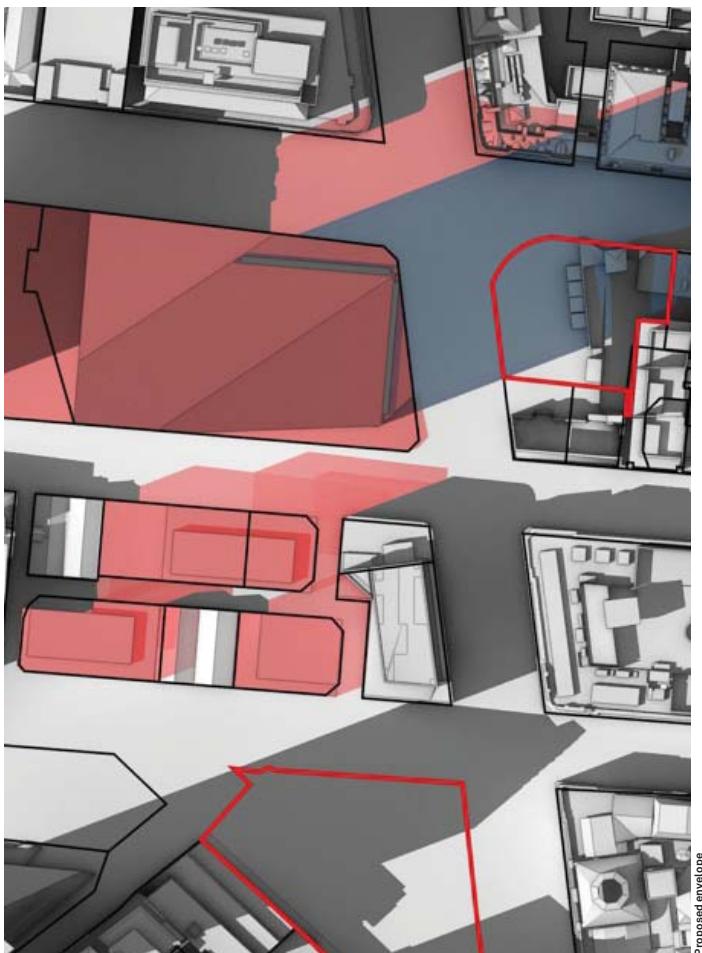
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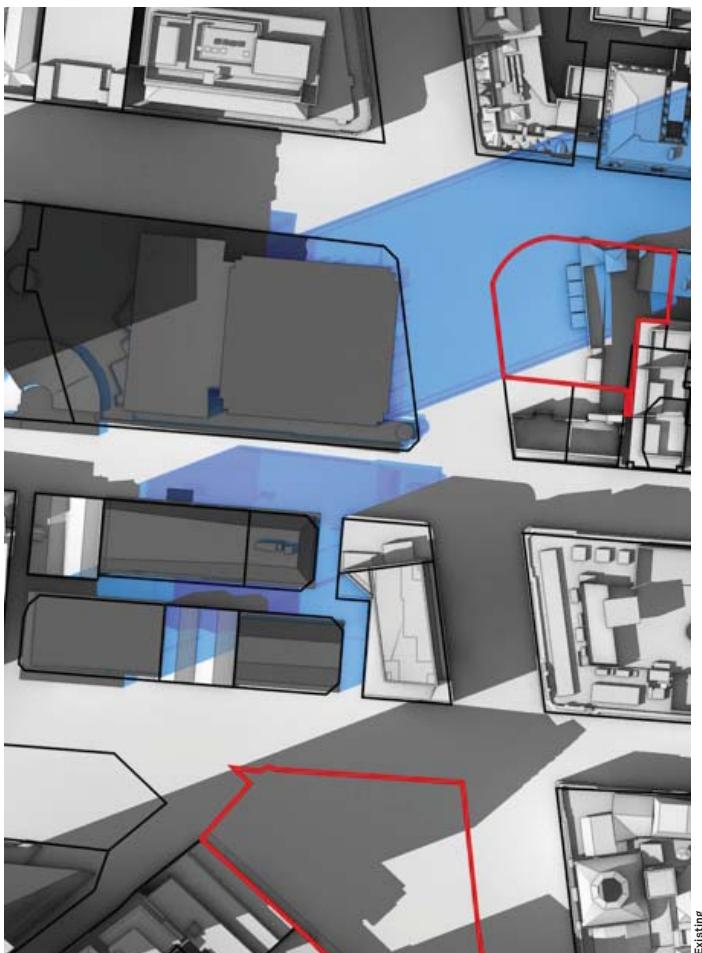


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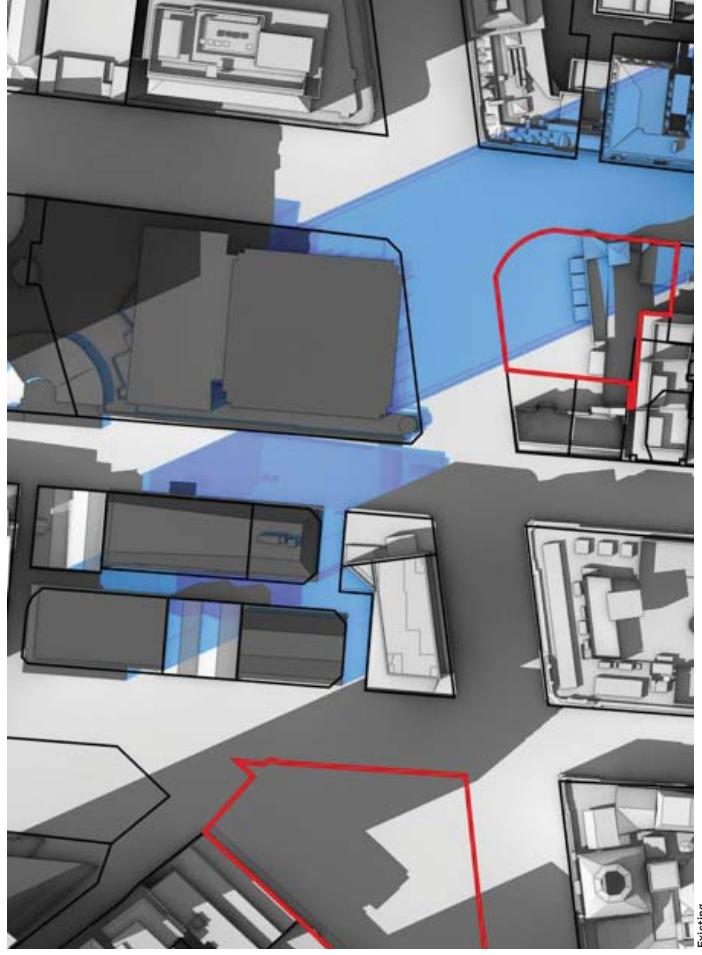
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First Government House Place

Shadow and Sun Access Study

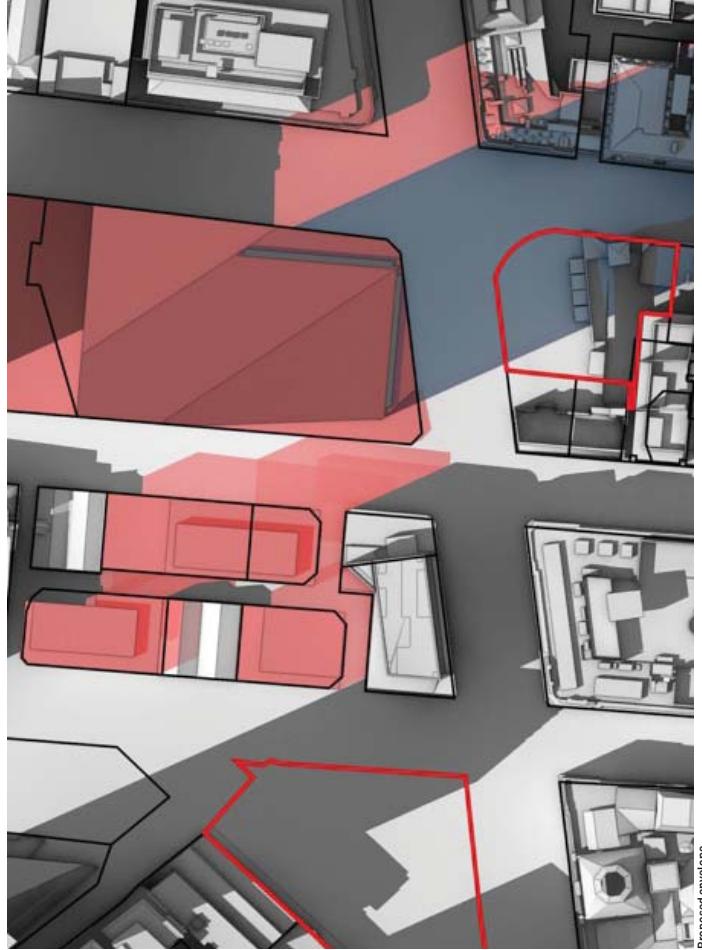
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First Government House Place



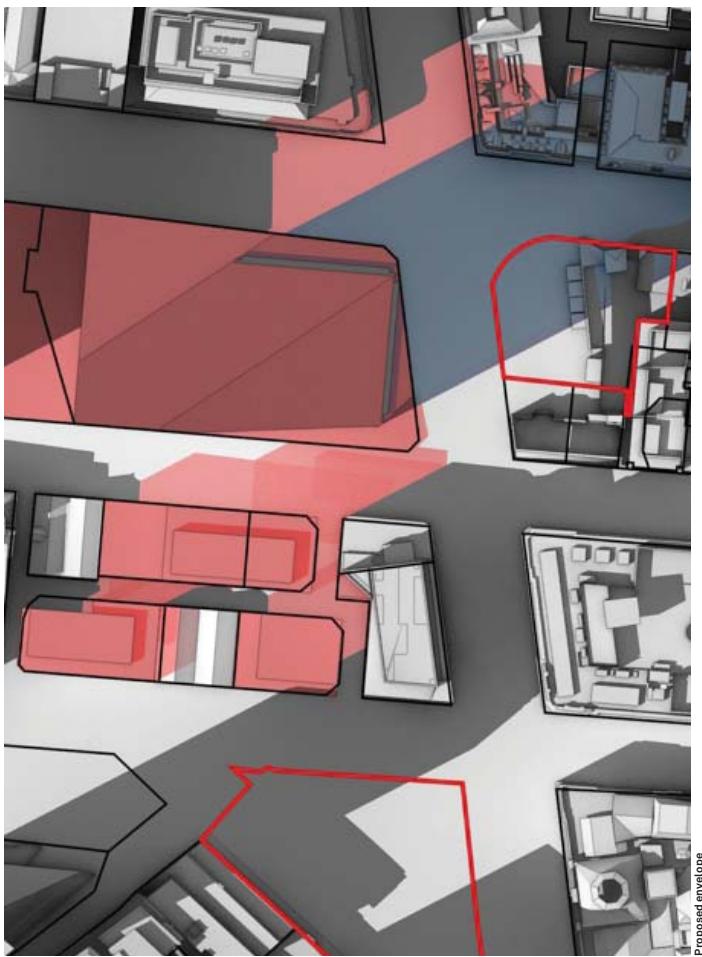
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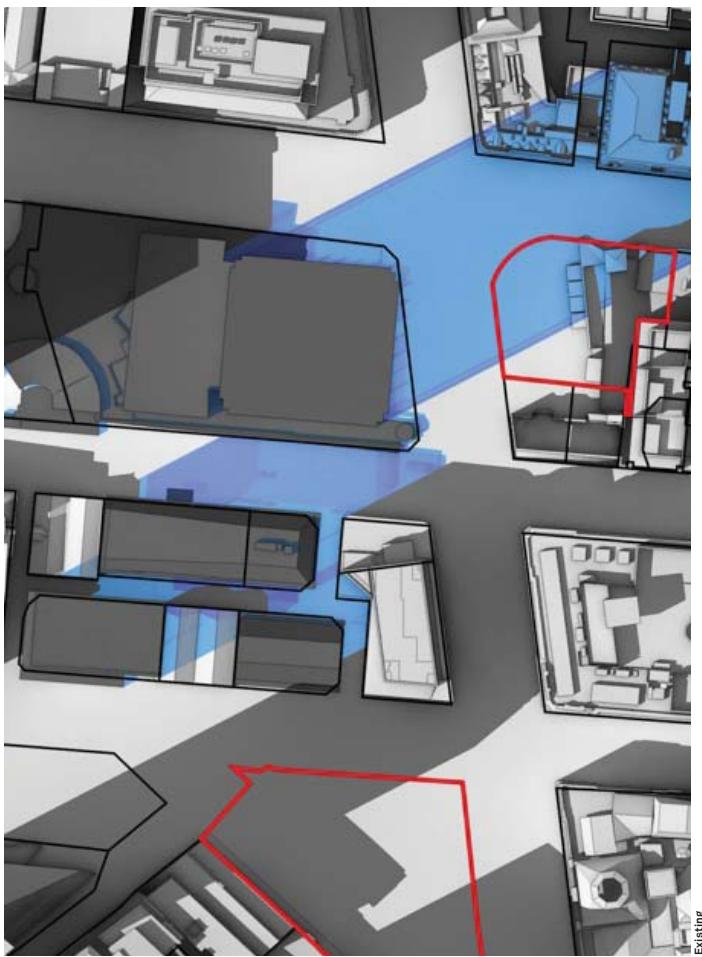


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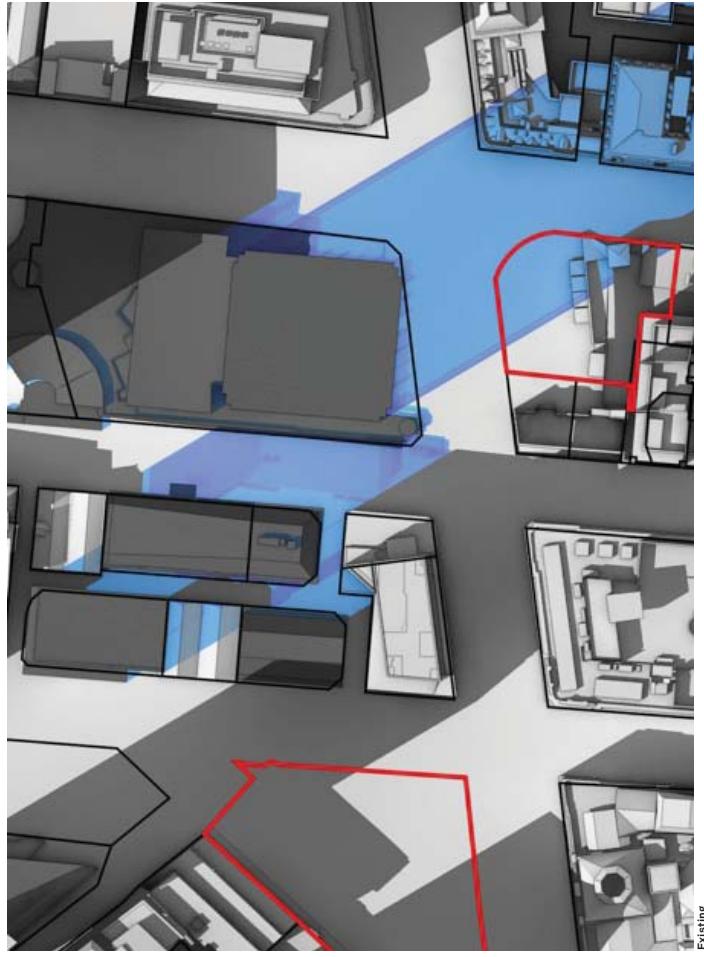
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First Government House Place

Shadow and Sun Access Study

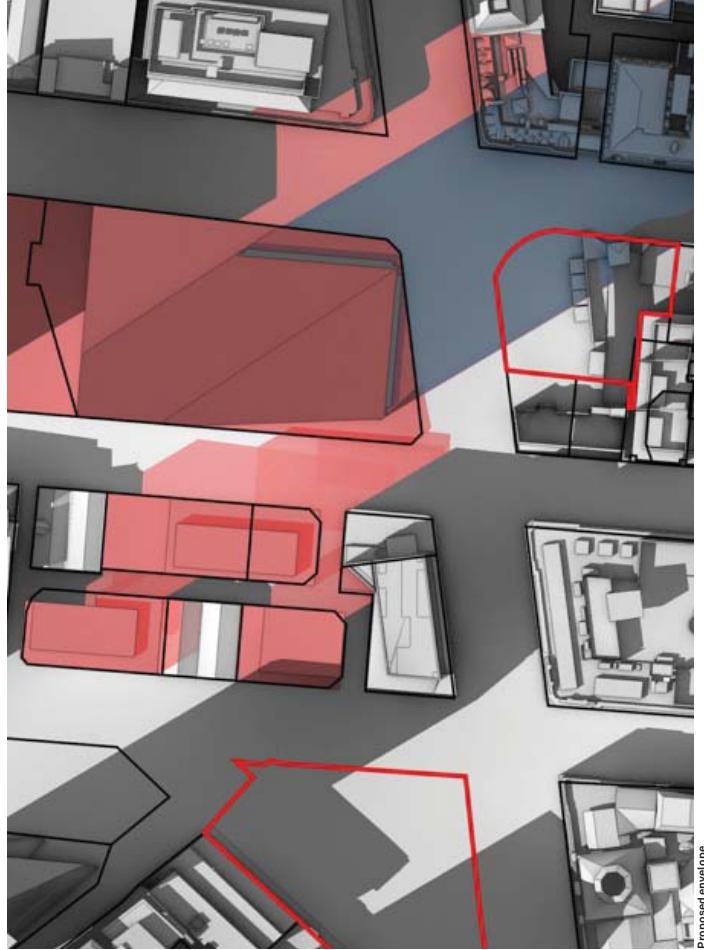
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First Government House Place



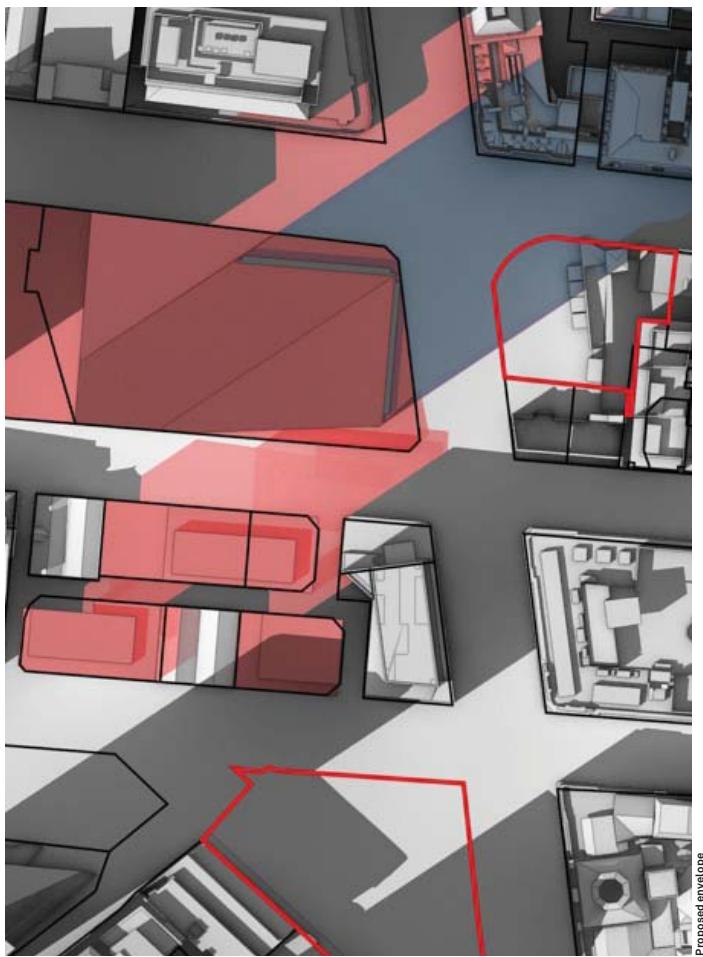
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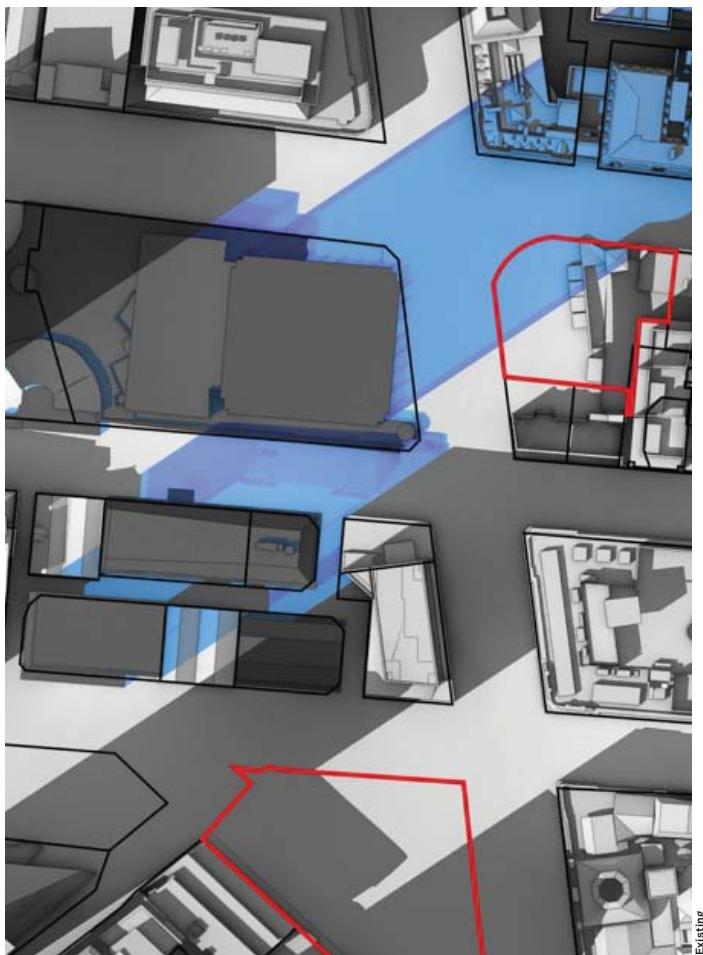


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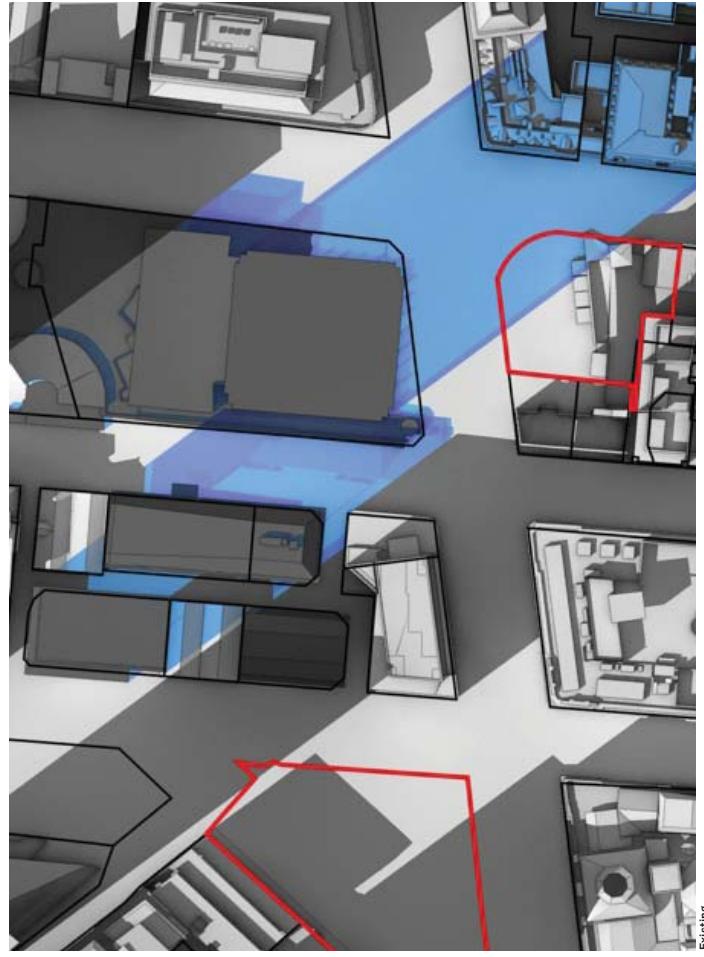
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Existing situation
Proposed envelope

First Government House Place

Shadow and Sun Access Study

53

First Government House Place



Legend

- Existing situation
- Proposed envelope



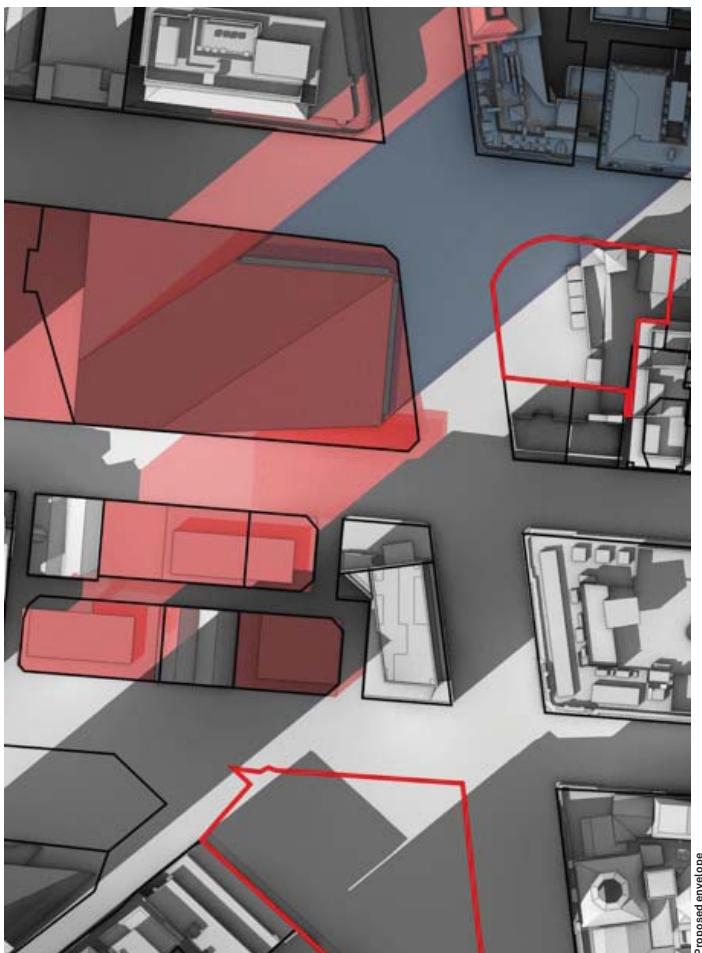
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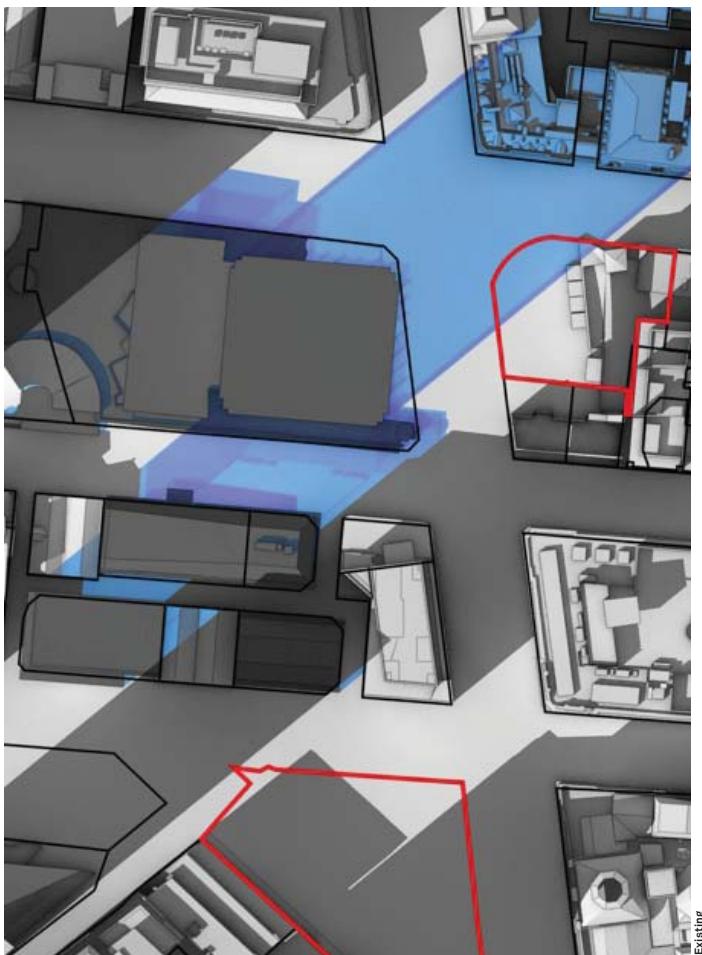
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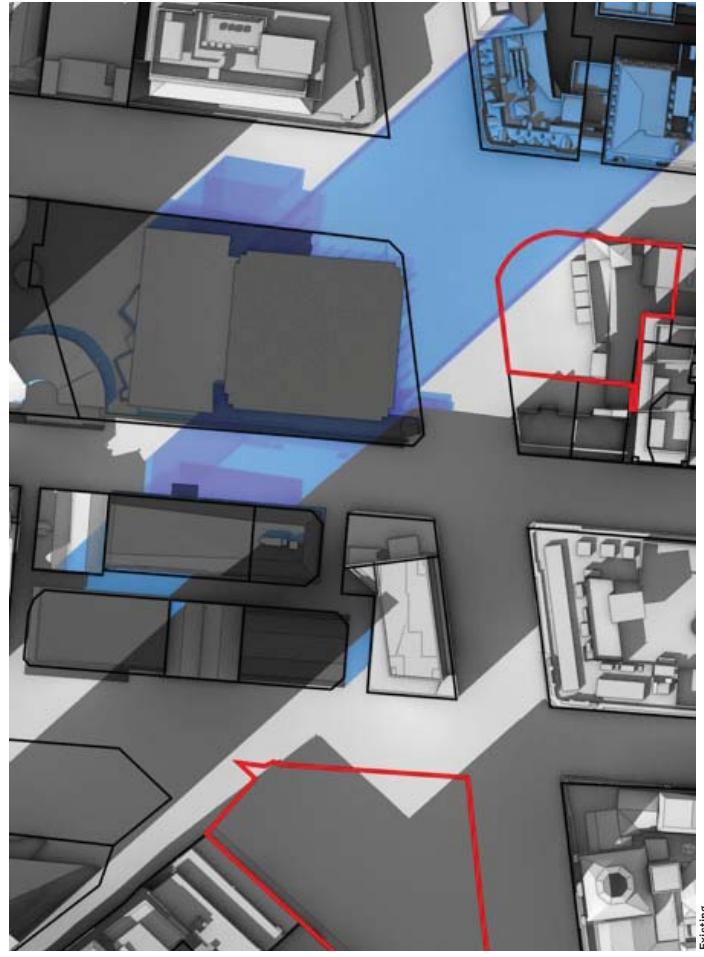


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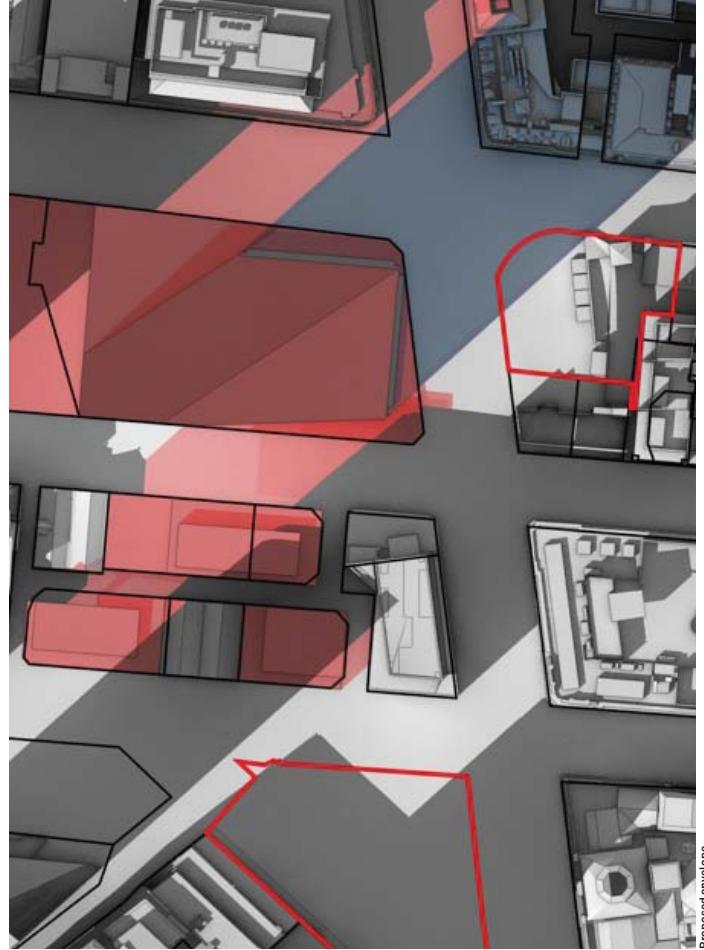
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First Government House Place



Legend

- Existing situation
- Proposed envelope



Legend
Existing situation
Proposed envelope
Date
31 August
Time
02:00 pm

HASSELL

Australia	China	South East Asia
Adelaide HASSELL Level 5 70 Hindmarsh Square Adelaide SA Australia 5000 T +61 8 8220 5000 E adelaide@hassellstudio.com	Beijing HASSELL Building A7 50 Aijiadou Chaoyang District Beijing 100125 China T +8610 5126 6908 E beijing@hassellstudio.com	Bangkok HASSELL 18F, K Tower 209 Sukhumvit Soi 21 Klongtoey-Nua Wattana Bangkok 10110 Thailand T +66 2207 8999 E bangkok@hassellstudio.com
Brisbane HASSELL 36 Warry Street Fortitude Valley QLD Australia 4006 T +61 7 3914 4000 E brisbane@hassellstudio.com	Chongqing HASSELL 28F, International Trade Centre 38 Qing Nian Road Yu Zhong District Chongqing 400010 China T +8623 6310 6888 E chongqing@hassellstudio.com	Singapore HASSELL 17A Stanley Street 068736 Singapore T +65 8224 4688 E singapore@hassellstudio.com
Melbourne HASSELL 61 Little Collins Street Melbourne VIC Australia 3000 T +61 3 8102 3000 E melbourne@hassellstudio.com	Hong Kong SAR HASSELL 22F, 169 Electric Road North Point Hong Kong SAR T +852 2552 9098 E hongkong@hassellstudio.com	United Kingdom Cardiff HASSELL 4th Floor, James William House 9 Museum Place Cardiff CF10 8BD United Kingdom T +44 29 2072 9071 E cardiff@hassellstudio.com
Perth HASSELL Podium Level, Central Park 152 – 158 St Georges Terrace Perth WA Australia 6000 T +61 8 6477 6000 E perth@hassellstudio.com	Shanghai HASSELL Building 8 Xing Fu Ma Tou 1029 South Zhongshan Road Huangpu District Shanghai 200011 China T +8621 6887 8777 E shanghai@hassellstudio.com	London HASSELL Level 2, Morelands 17 – 21 Old Street Clerkenwell London EC1V 9HL United Kingdom T +44 20 7490 7669 E london@hassellstudio.com
Sydney HASSELL Level 2 88 Cumberland Street Sydney NSW Australia 2000 T +61 2 9101 2000 E sydney@hassellstudio.com	Shenzhen HASSELL 37F, Landmark 4028 Jintian Road Futian District Shenzhen 518035 China T +8675 2381 1838 E shenzhen@hassellstudio.com	